Field Test in Santa Cruz Volume 2 Figures

15AA

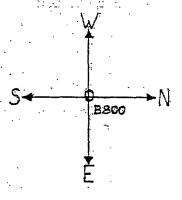
FIELD TEST OF THE LINS METHOD FOR THE RECOVERY OF OIL FROM TAR SAND

Volume 2

Figures

SANTA CRUZ, CALIFORNIA

TAR CONTENTS:



HOLE POSITION IN FT FROM B800 IN L8. SCALE: I" = 50.

TAR CONTENTS IN % BY VEIGHT OF BRY
TARSAND FROM 10-15 FT, 15-40 FT AND
40-45 FT, WRITTEN ABOVE THE HOLE
POSITION.

2.4-50-7.4 3004/200N

121-64-7.2 2621/0

9.5-7.4-12.3

190 v/50 S

7-93-0

181 v/5 v 2-85-33. 85-96-0 181 v/75 v

9.3-11.1-95

172 v/6 v 173 v/5 v 105-10.6-3.7 155 v/8 v 105-10.6-0

155 v/6 v 9.1-95-13.8

162 v/6 v 9.1-96-3.7 155 v/8 v 105-10.8-10.8-10.9-8.5

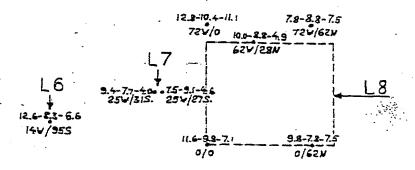
180 v/55 S

180 v/55 S

180 v/55 V 105-10.8-10.8 12 9 v/75 v 12 1 v/4 v/4 v 12 1 v/4 v 12

200 W/200 M

7.4-9.9-0 100w/200N

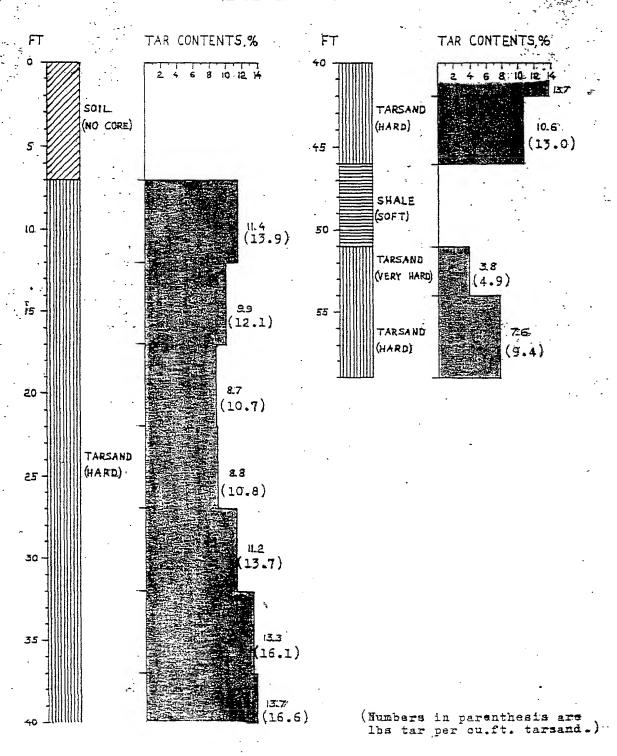


2-7.6-2.6 0/200 N

L 9 - 200: *** AUG. 30.1957: 88

Figure 2

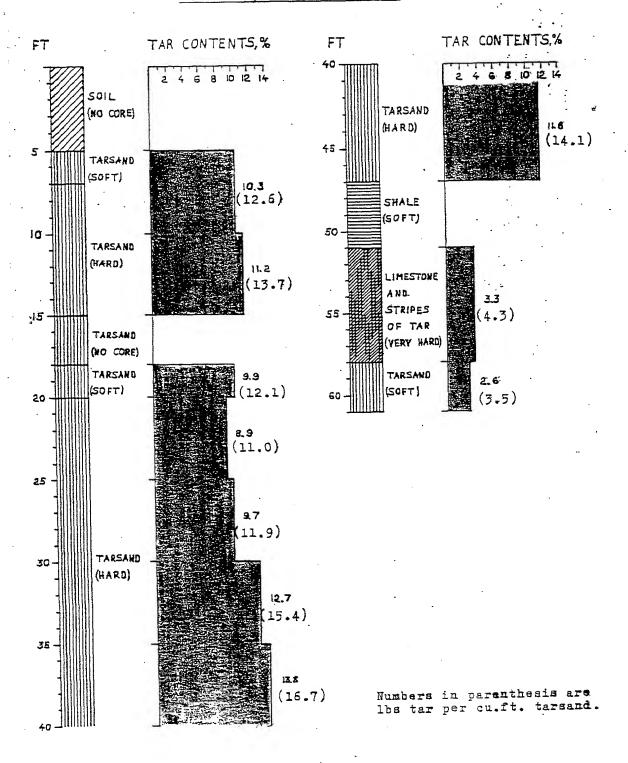
WELL LOG. 121W/40 N. (B2-5).



L9-201 AUG 30.1957: &&

Figure 3

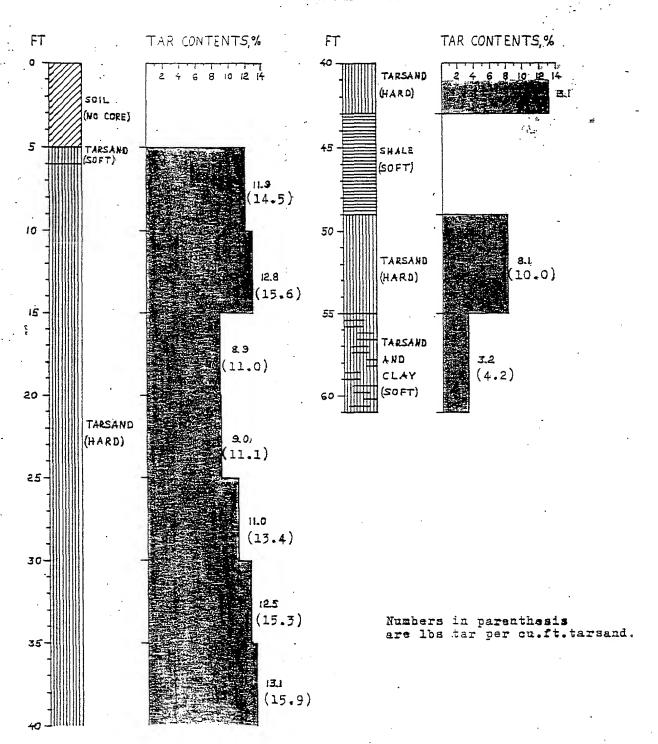
<u>WELL LOG.</u> 129 W/5 N. (B3-2)



L9-202. AUG.30.19**57.** &&

Figure 4

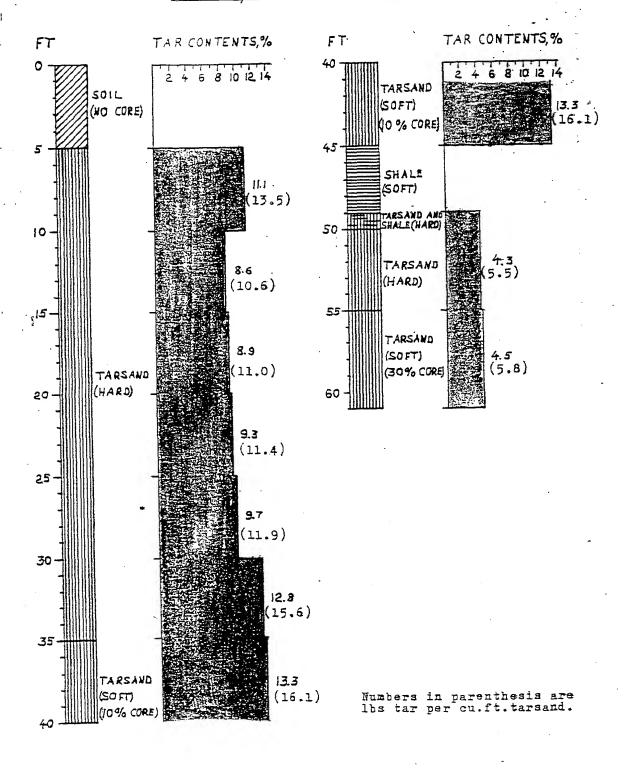
WELL LOG. 129 W/75 N. (B3-9)



L9-203. AUG.30.1957.83

Figure 5

<u>WELL LOG</u> 138 <u>W/40 N. (B4-5.)</u>



L9-212 OCT 18.1957.88

<u>WELL LOG.</u> 147 W/45 N (B5-6)

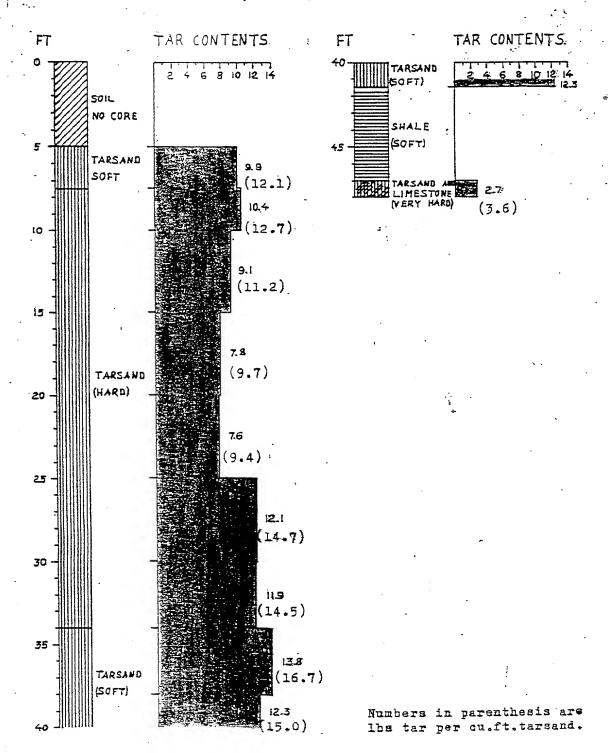


Figure 7 1957.MAY 2. 8D L LOG. 162W/O. (T61.) FT TAR CONTENTS, % FT TAR CONTENTS % 40 -2 4 6 8 10 12 14 TARSAND (HARD) SOIL (NO CORE) SHALE A. TARSAND (SOFT. 10% CORE REC.) 50 (10 % CORE RECOVERED) 10.4 (12.7)TARSAND A 7.7 (HARD) (9.5)NO CORE LIMESTONE 5. 6 (7.1)20 NO CORE TARSANDA. 5.3 25 % CORE 6.7) RECO VERED TARSAND A 65. LIMEST (HARD) 10.7 (13.1)30 125 (15.3) TARSAND T (HARD) 35 14.6 (17.7)

(16.5)

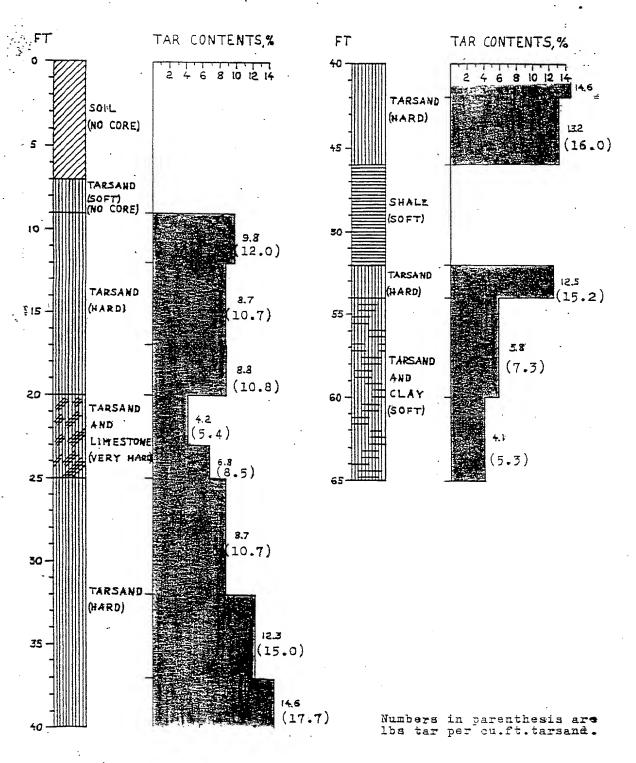
L9-204

Numbers in parenthesis are lbs tar per cu.ft.

tarsand.

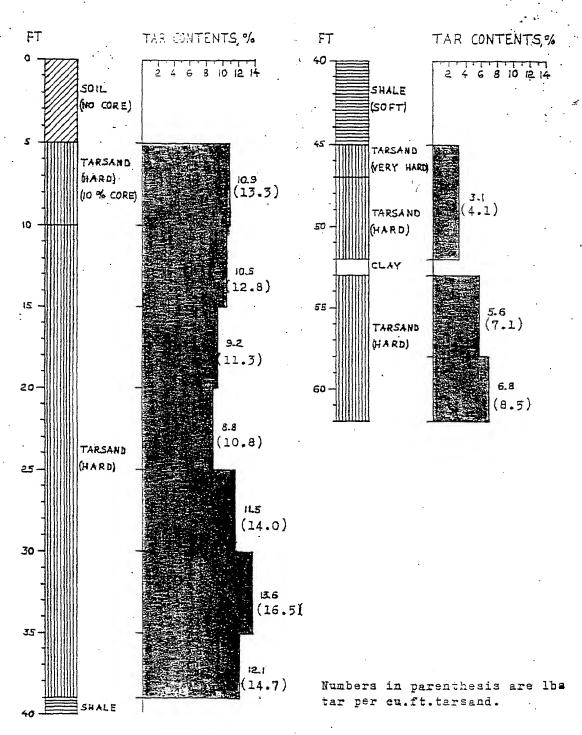
L9-205 OCT.18.1957.&&

<u>WELL LOG.</u> 155 W/10 N. (B6-2.)



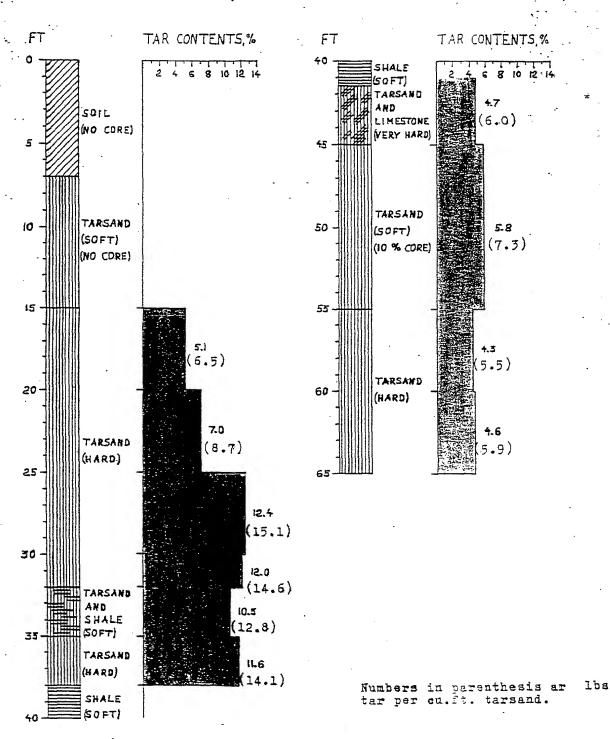
L9-206. AUG. 30.1957. &&

WELL LOG. 155 W/80 N. (B6-9.)



L9-207. AUG.30.1957:28

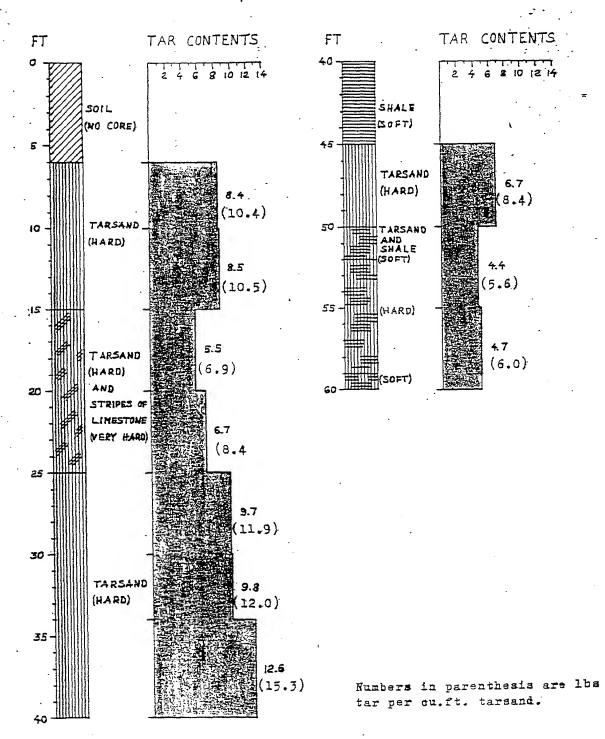
WELL LOG. 173 W/40 N. (B8-5)



L9-211. OCT.18.1957: ₽₽

Figure 11

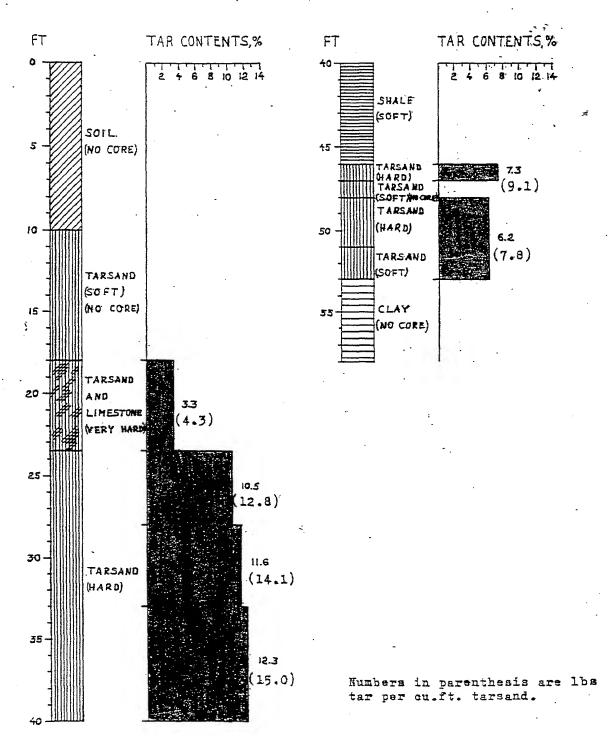
WELL LOG. 173 W/50 N. (B8-6)



L9-208.

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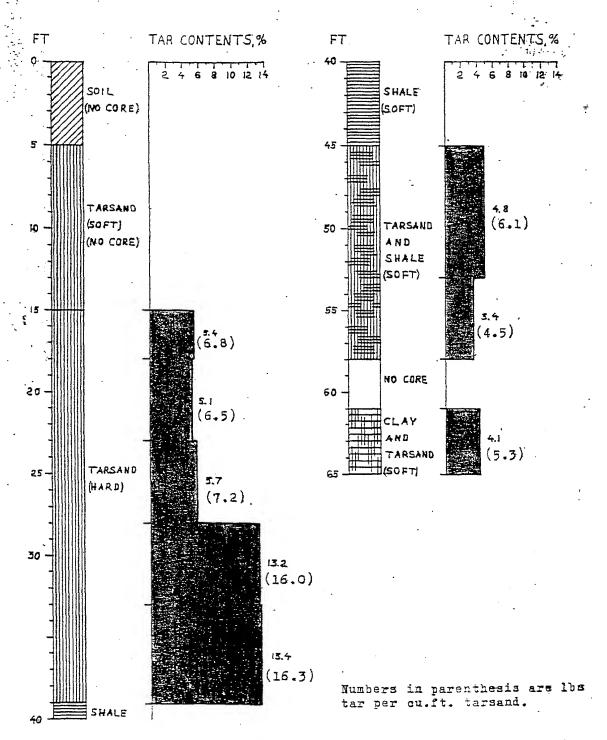
<u>WELL LOG.</u> 181 W/ 5 N. (B9-2)

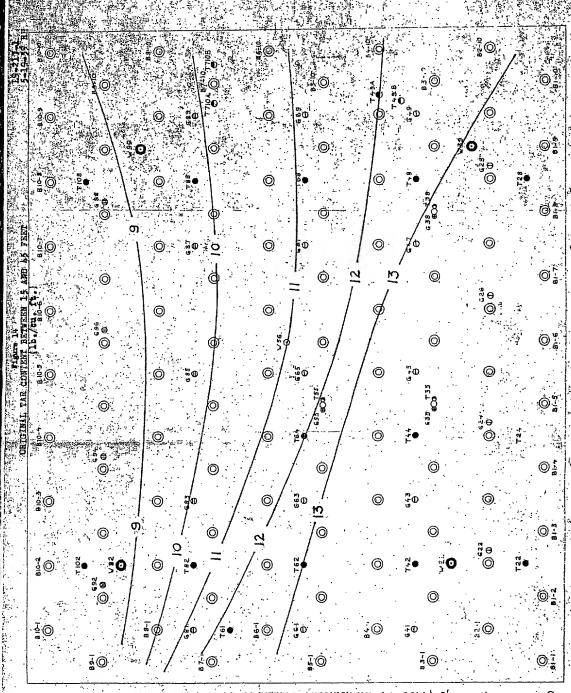


L9-209 OCT.18.1957. &&

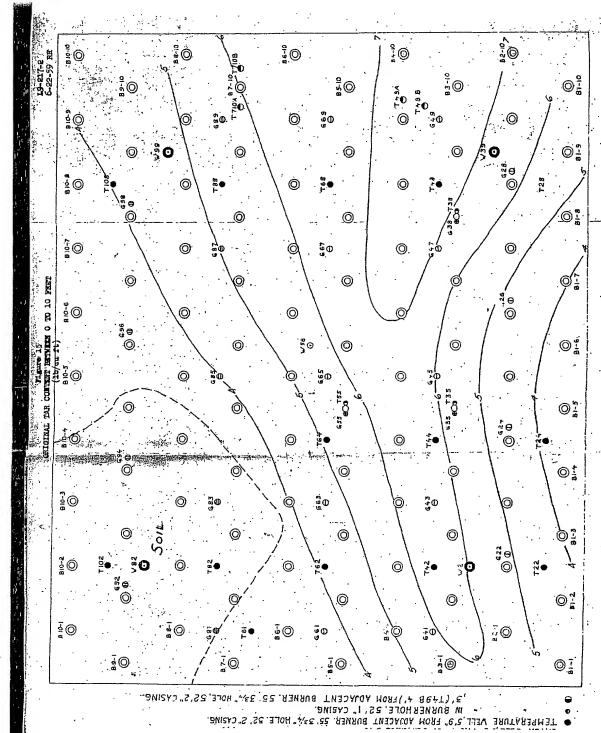
Figure 13

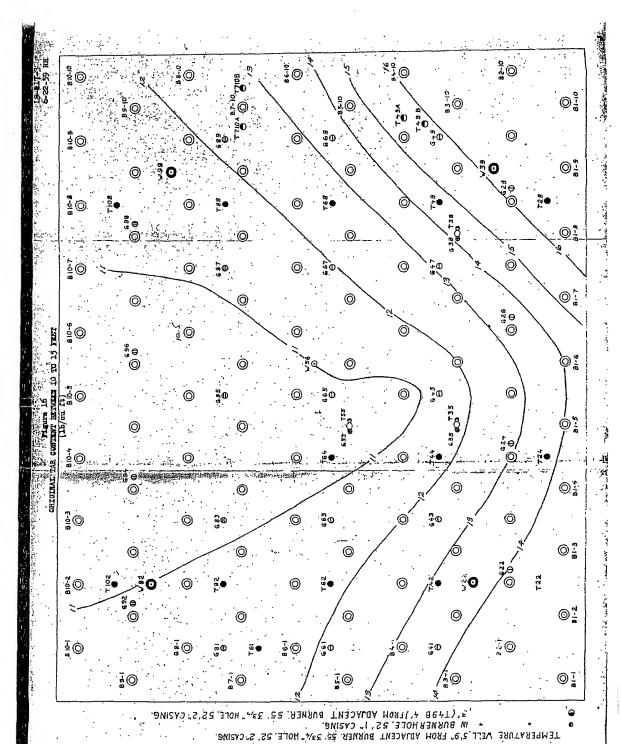
<u>WELL LOG.</u> 181 W/75 N. (B9-9)

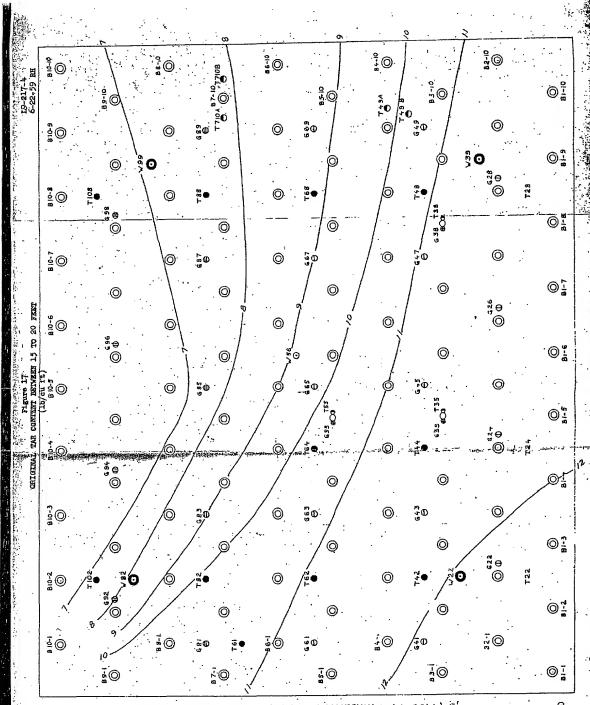




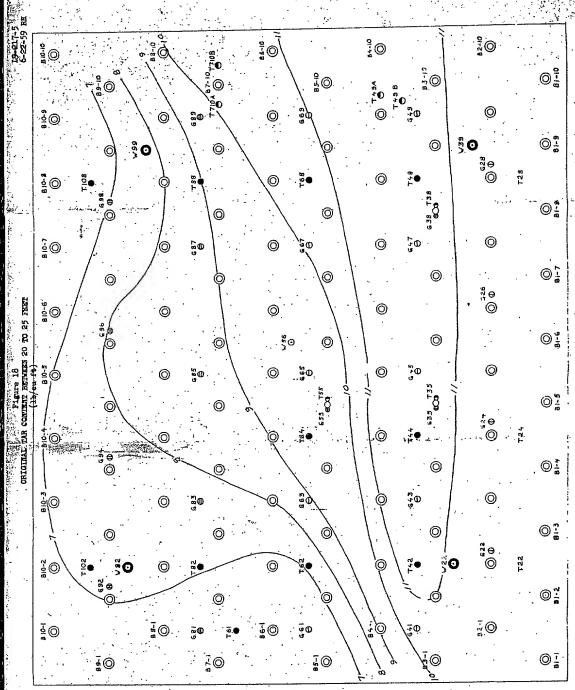
TEMPERATURE VELL, FROM ADJACENT BURNER, 55 33, HOLE 52'2" CASING.
TEMPERATURE VELL, 5'9" FROM ADJACENT BURNER, 55 34, HOLE 52'2" CASING.



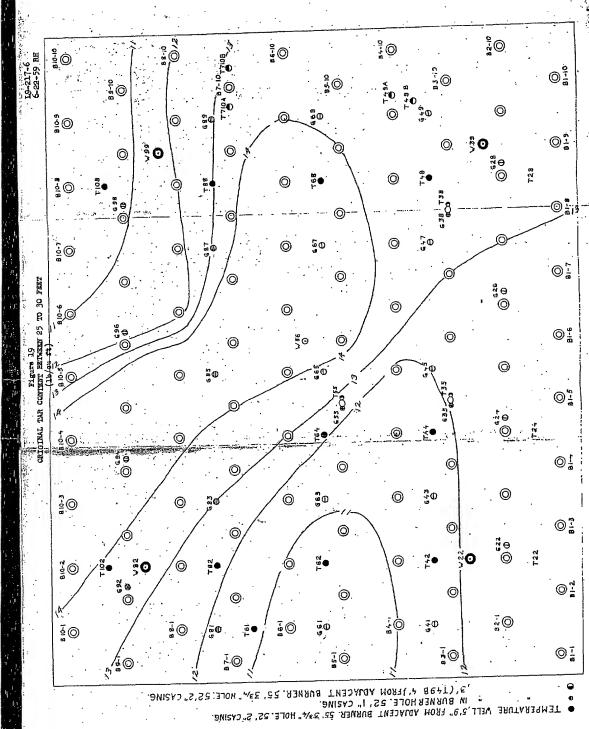


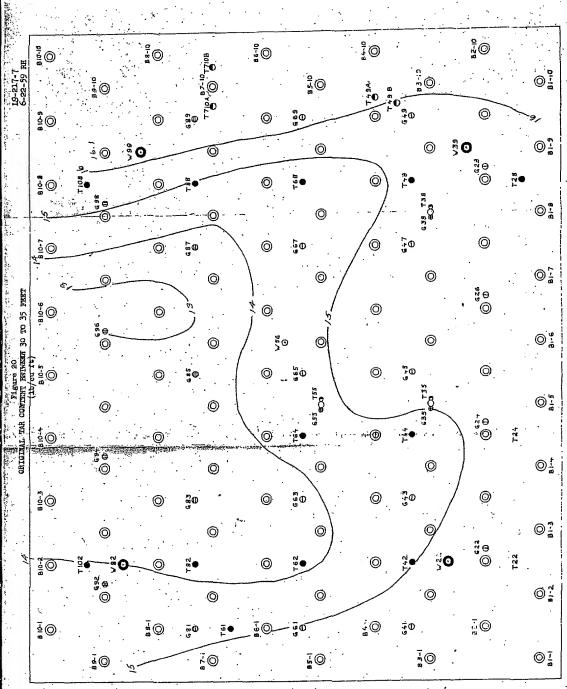


TEMPERATURE VELL 5'9" FROM ADJACENT BURNER, 55' 35, 35, "HOLE, 52'2" CASING.



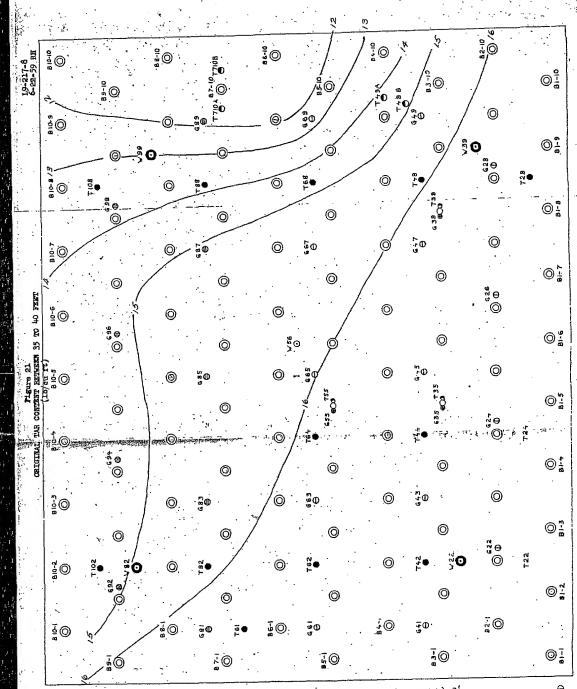
TEMPERATURE VELL, 5'9" FROM ADJACENT BURNER, 55' 334" HOLE: 52'2" CASING.
TEMPERATURE VELL, 5'9" FROM ADJACENT BURNER, 55" 34" HOLE: 52' 2" CASING.



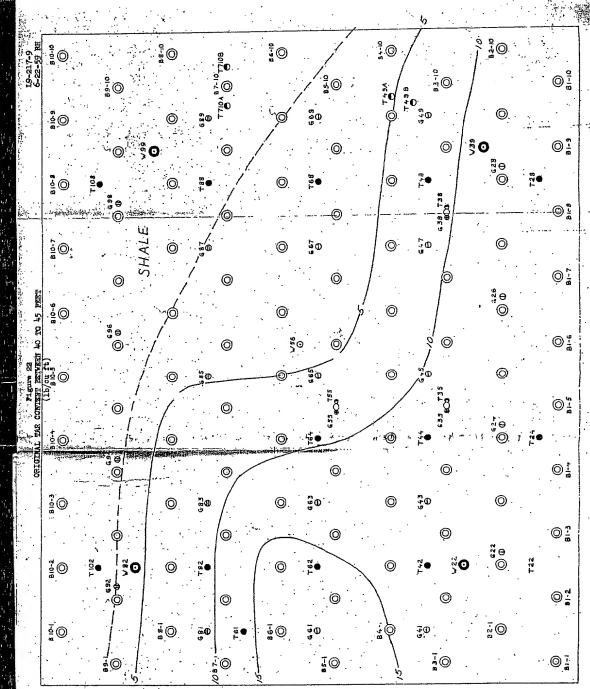


TEMPERATURE VELL,5" FROM ADJACENT BURNER, 55" 33%" HOLE, 52"2" CASING.

TEMPERATURE VELL,5"9" FROM ADJACENT BURNER, 55" 354" HOLE, 52" 2" CASING.

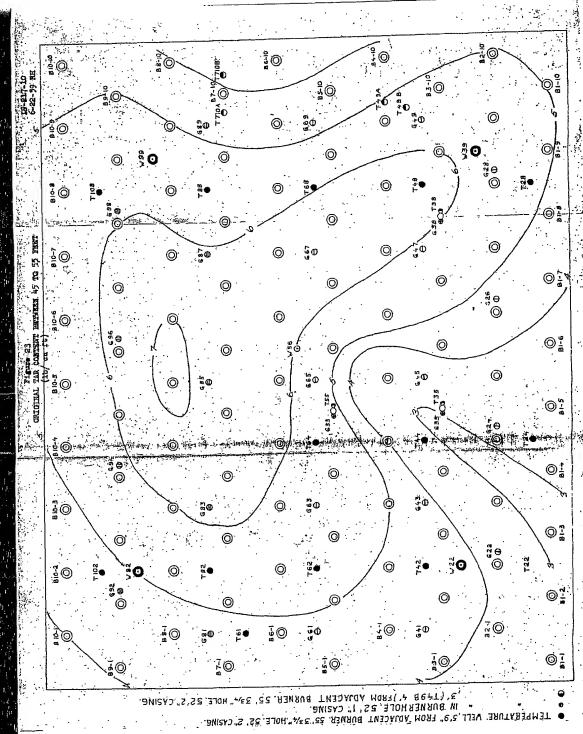


TEMPERATURE VELL 5'9" FROM ADJACENT BURNER, 55' 33, HOLE, 52'2" CASING.
, W BURNER HOLE, 52'1" CASING.
, 3'(T19B 4')FROM ADJACENT BURNER, 55' 33, HOLE, 52'2" CASING.



■ LEMPERATURE VELL, 5'9" FROM ADJACENT BURNER, 55' 334" HOLE, 52'2" CASING.

TEMPERATURE VELL, 5'9" FROM ADJACENT BURNER, 55' 334" HOLE, 52'2" CASING.



NAN. 21.1958.48.9P

HOLE PATTERN 0E

© MATER WELL, 5'9" FROM ADJACENT BURNER, 55', 35, "HOLE, 52', 2" CASING.

■ WATER WELL, 5'9" FROM ADJ. BURNER, 55', 354," HOLE, 52', 2" CASING.

■ WATER WELL, 5'9" FROM ADJ. BURNER, 55', 554," HOLE, 52', 2" CASING.

■ CONCENTRIC GASVELL AROUND WATER VELL, 15', 450" > 422', 755" HOLE, 40'372" AND 10' 4" TUBING.

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■ 7' 2.9. 20, 23t, Hore Eitted Mith Ervael 10 12; 12,11/5, Cysind O BURNER. IS'S 58" AND +0' +34" HOLE. 52' 212" CASING.

© CONCENTRIC GASWELL AROUND BURNER, IS' 450" 428" CASING.

© CONCENTRIC GASWELL AROUND BURNER, IS' 450" 428" CASING.

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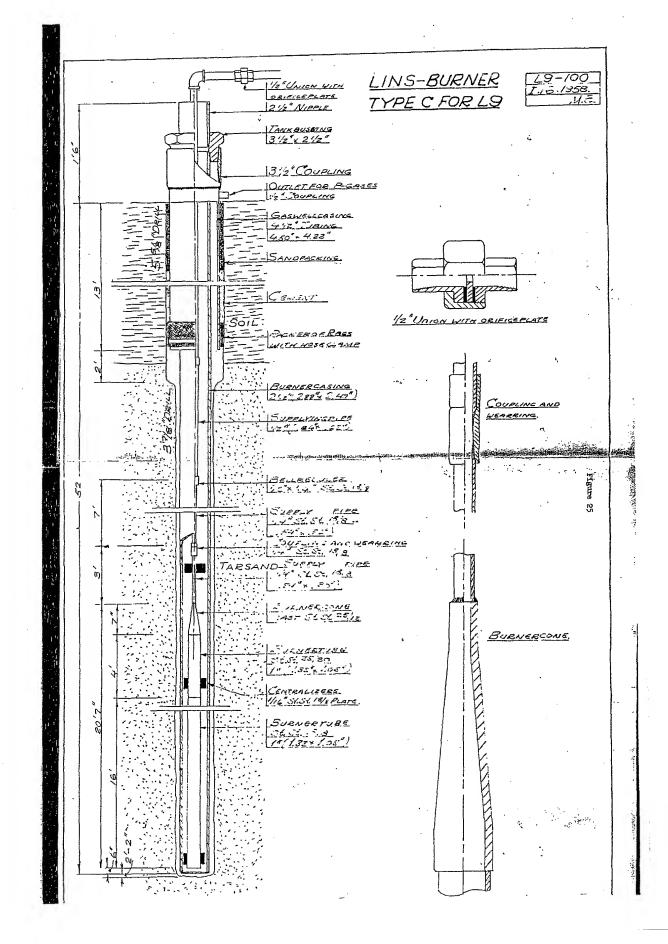
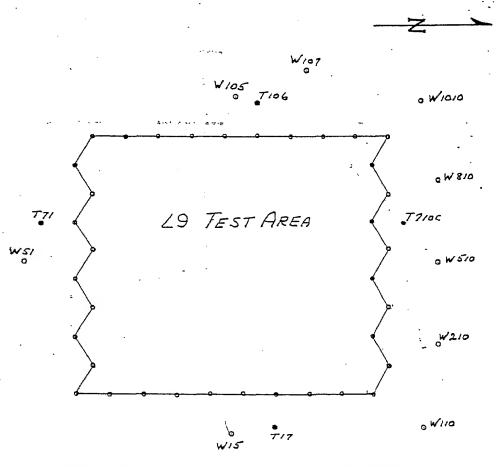


Figure 27

WATER WELLS AND TEMPERATURE WELLS OUTSIDE L9.



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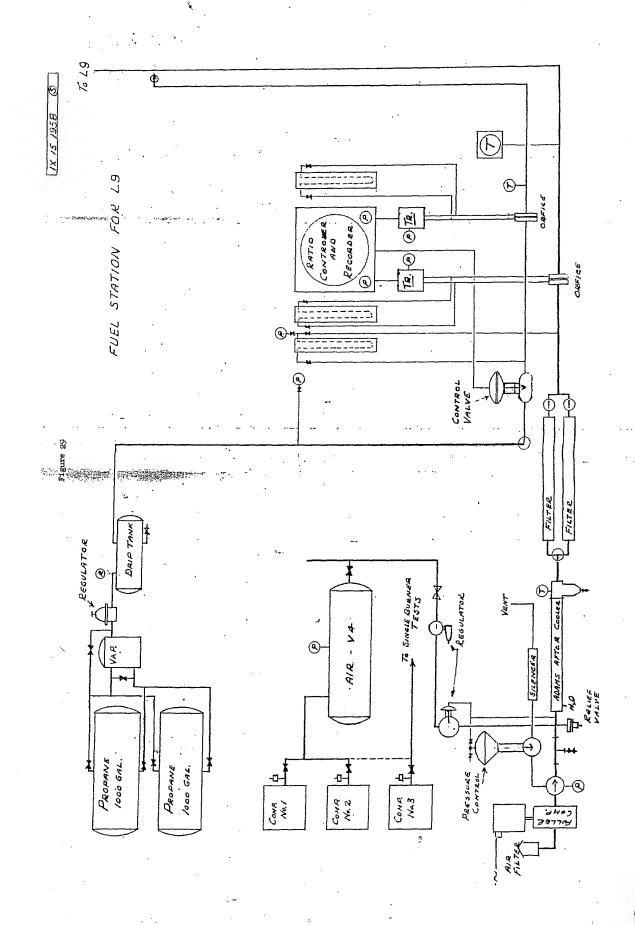
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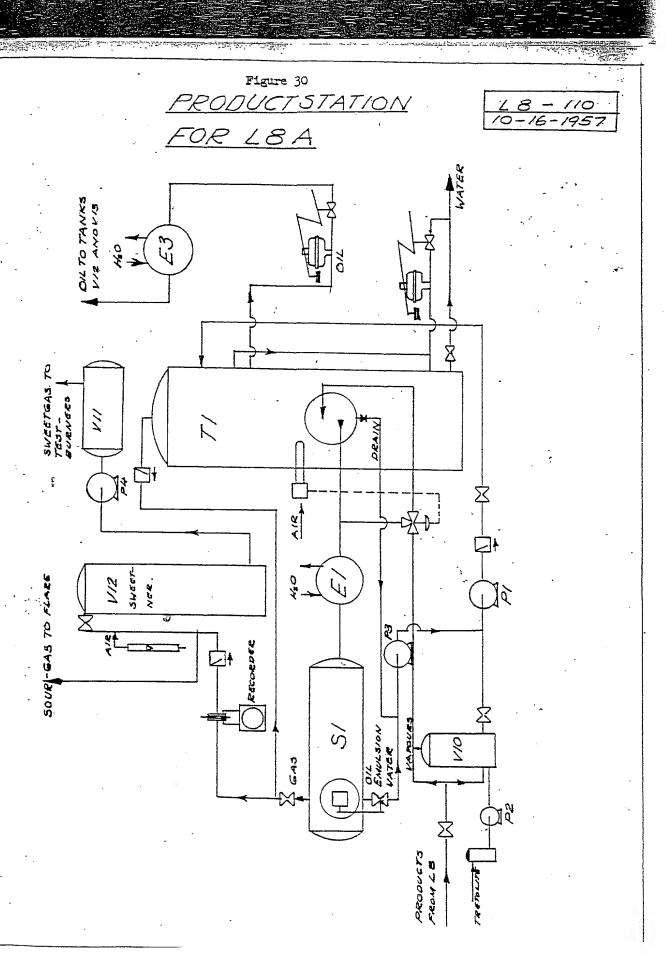
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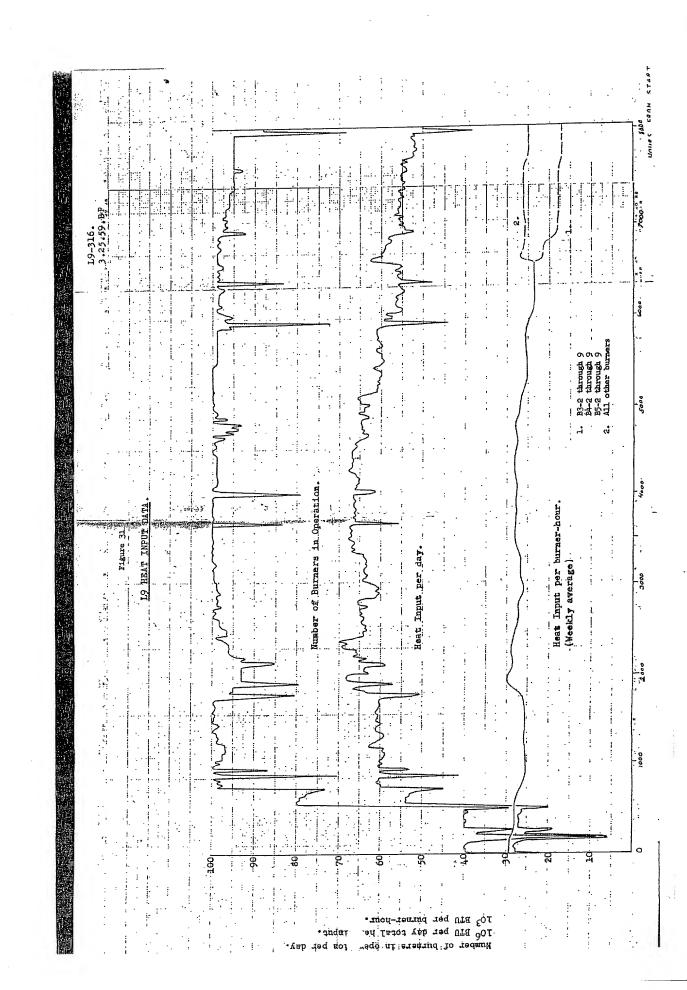
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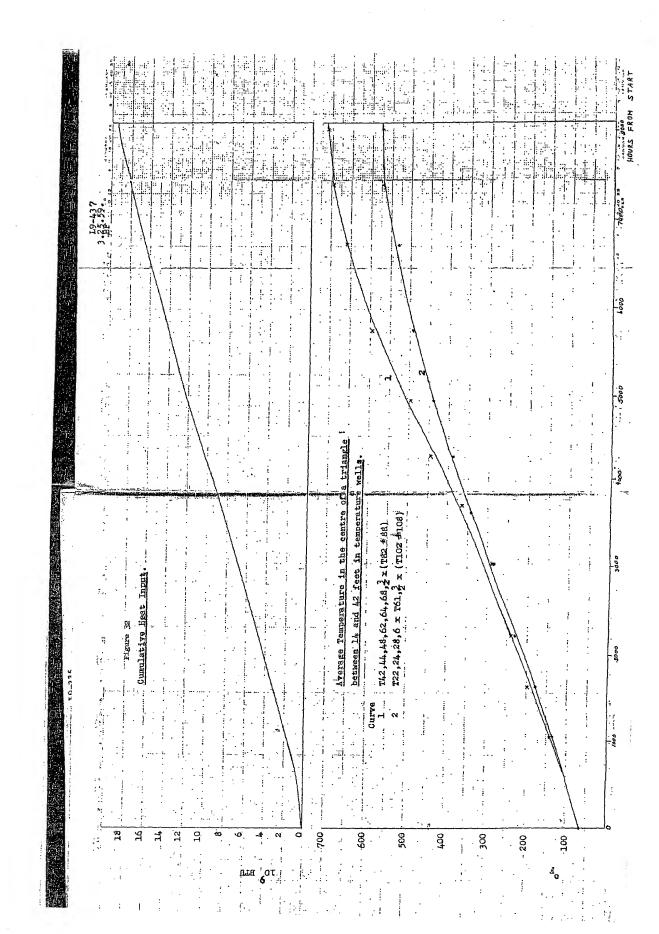
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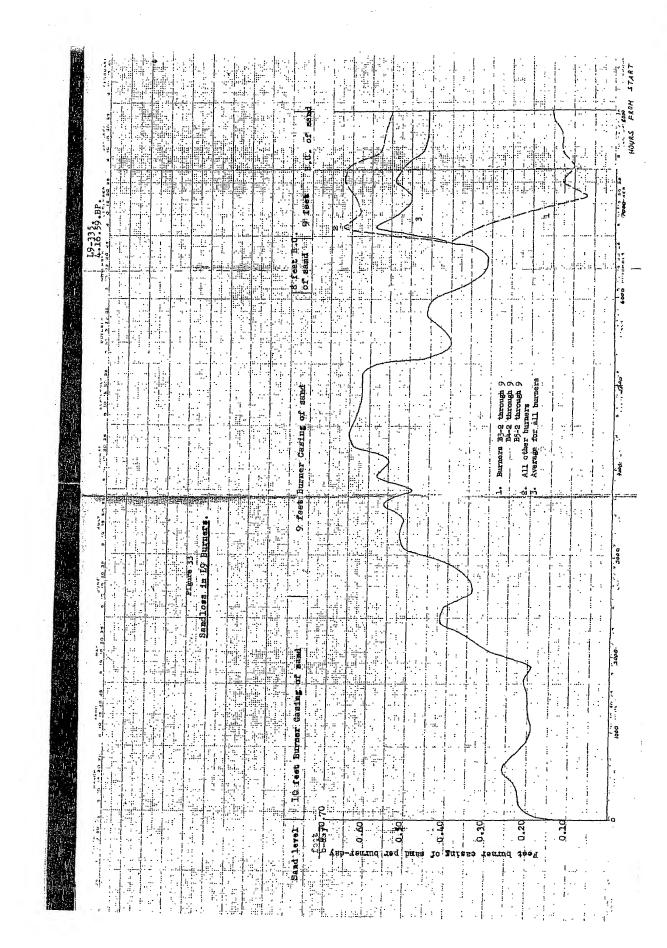
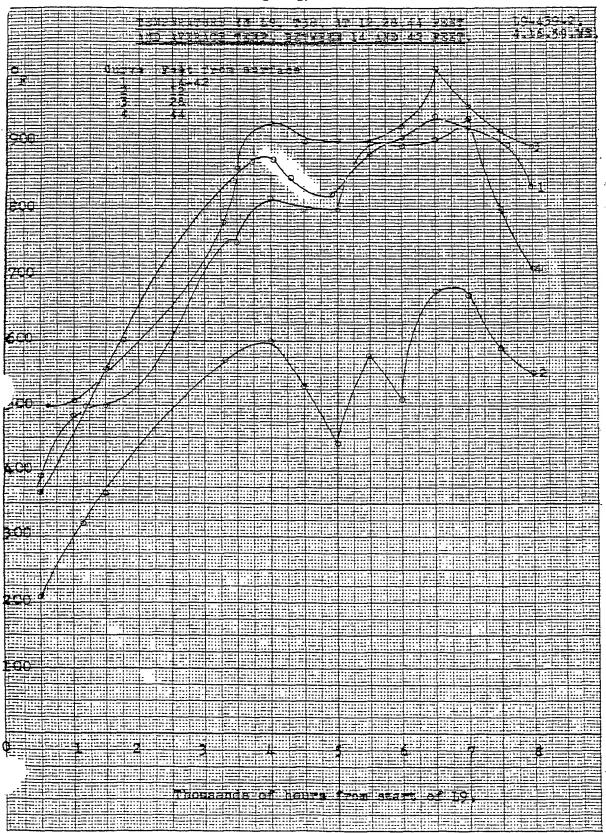


Figure 35



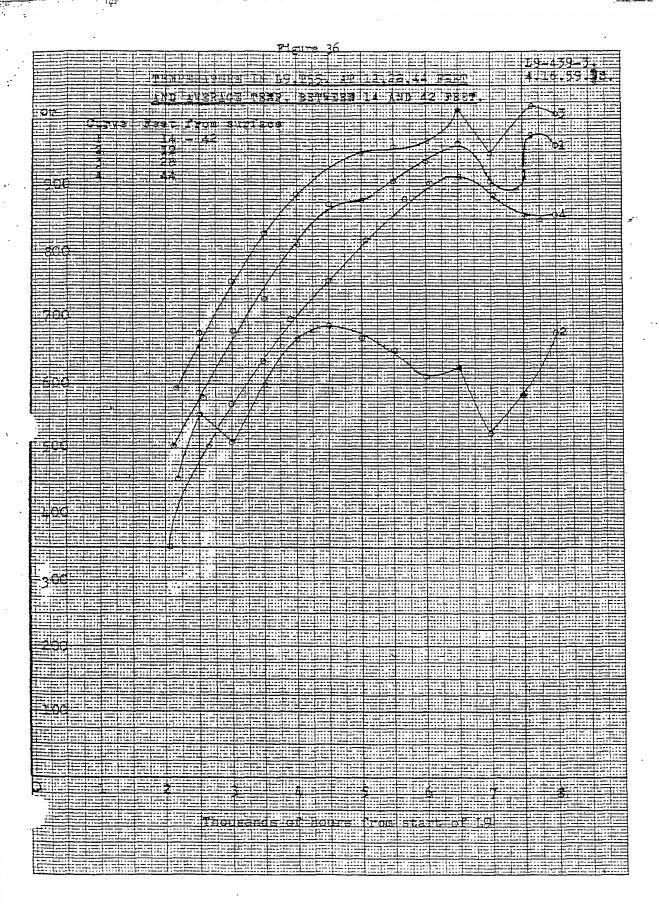


Figure 38 DIFFERENT SAND PRIGHTS CONTACTOR CURVE DATE HEAT WHIT FOR SAND FEIGHT AY SURVER STUMB FT B-CASING 200 25 000 12

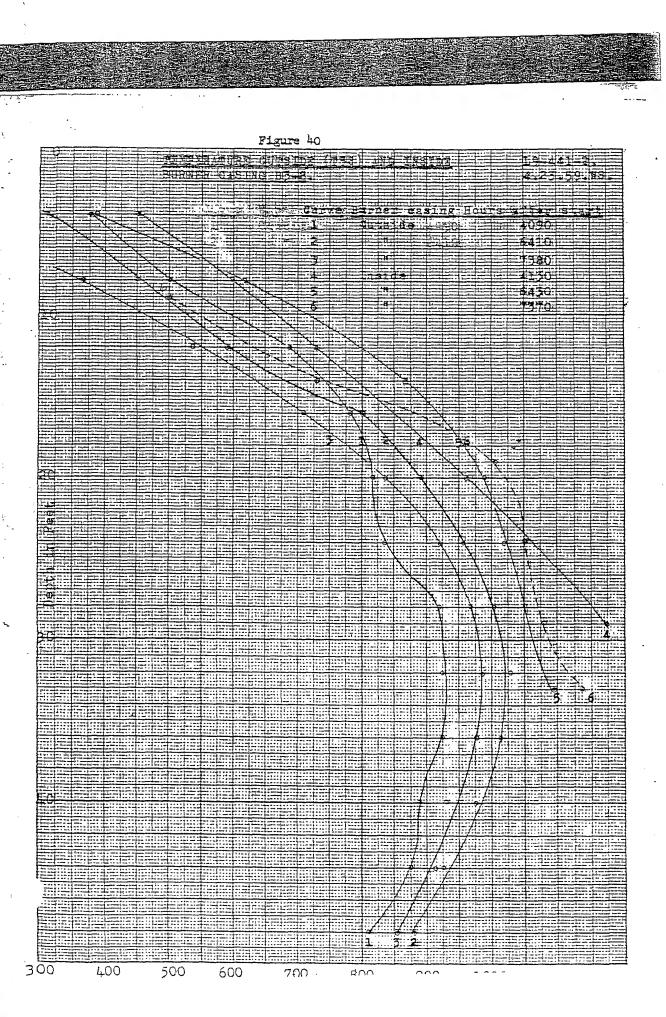


Figure 41

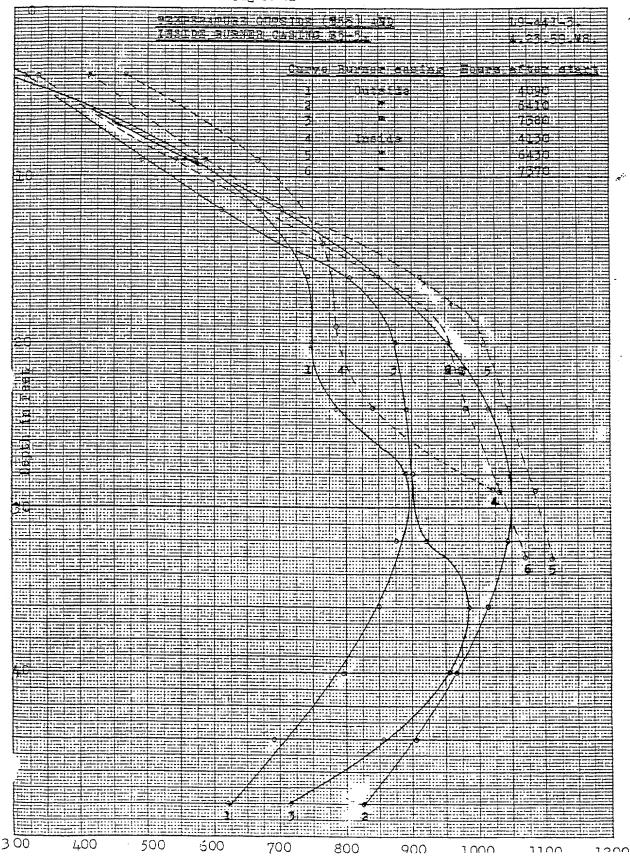


Figure 42

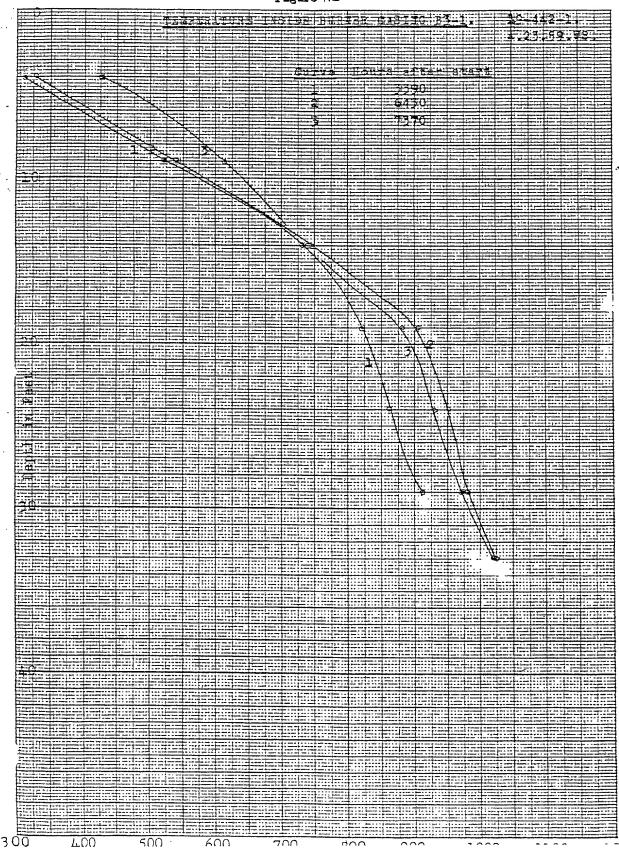
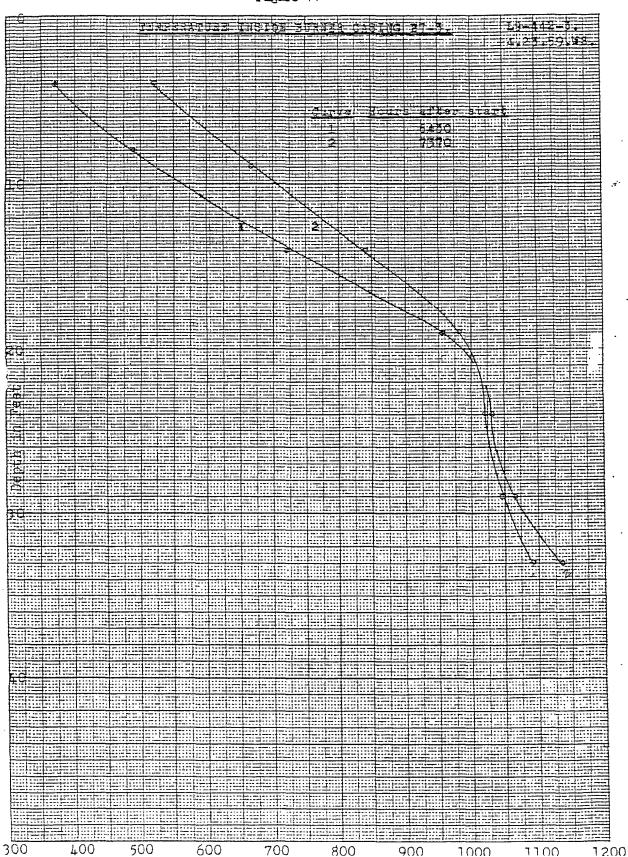
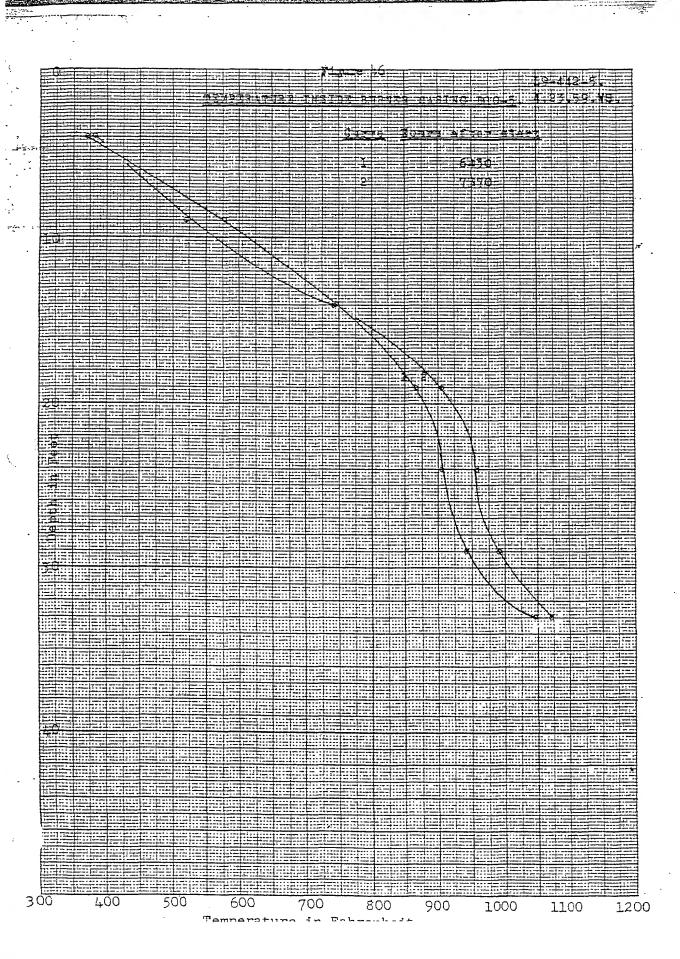


Figure 44



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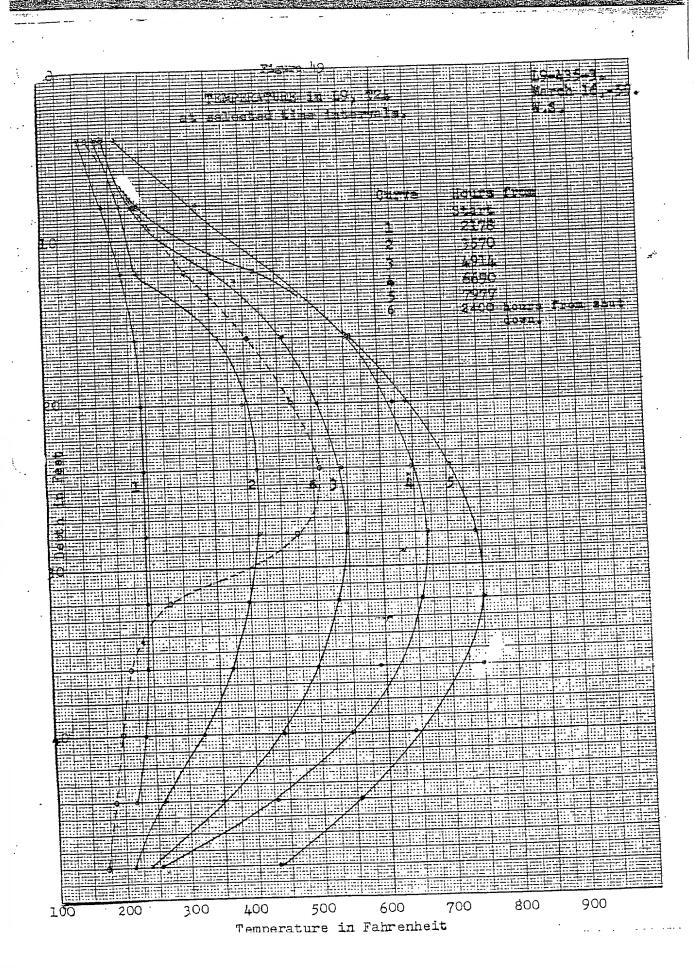


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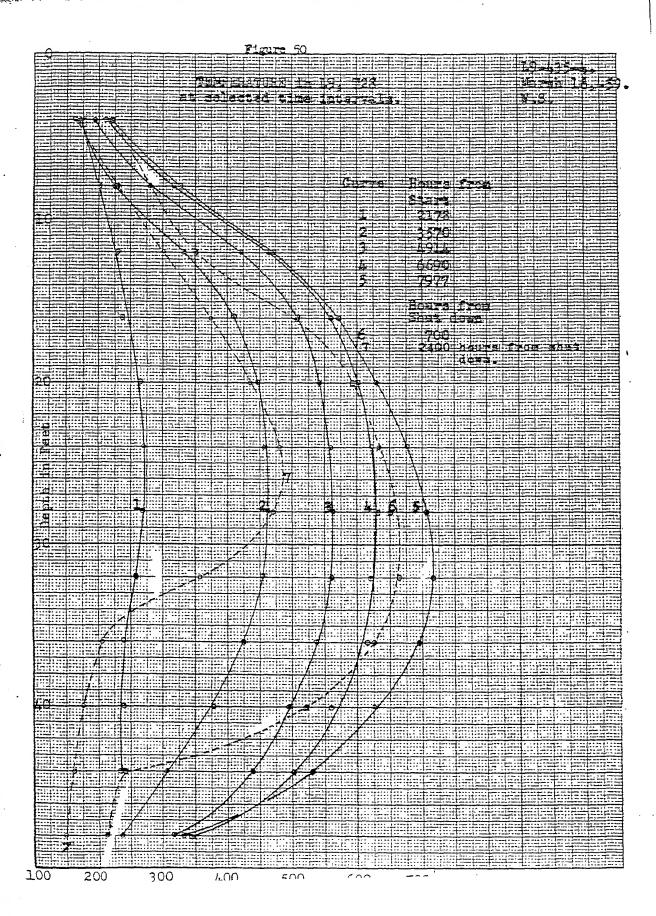
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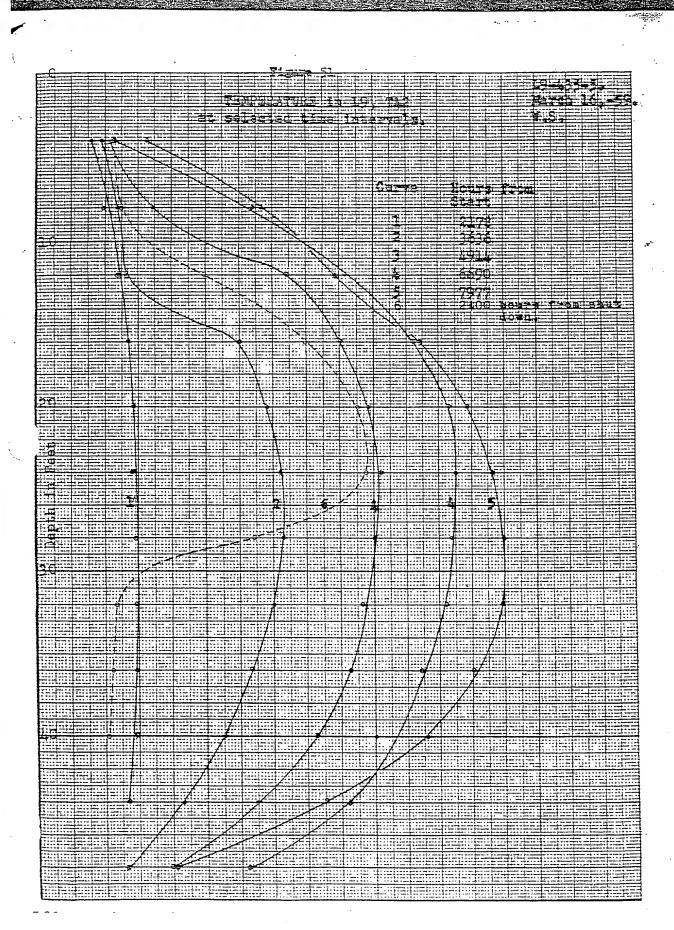
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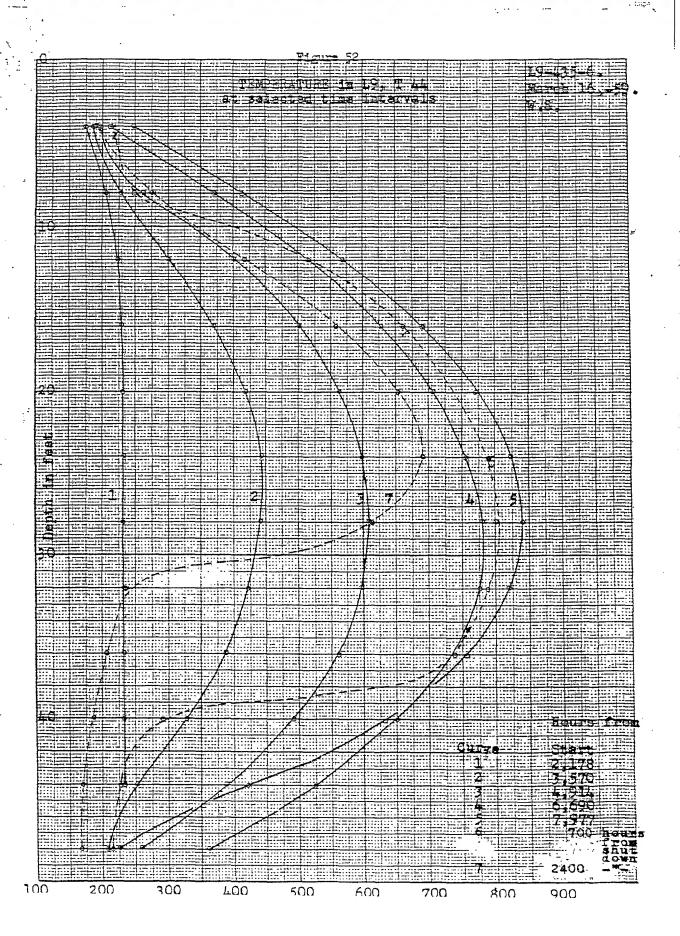
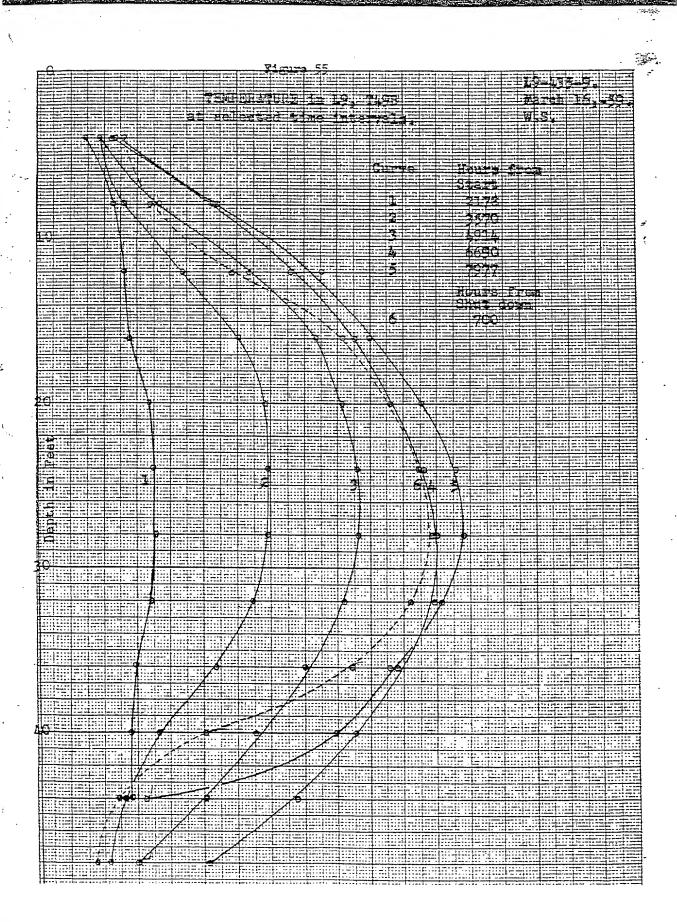
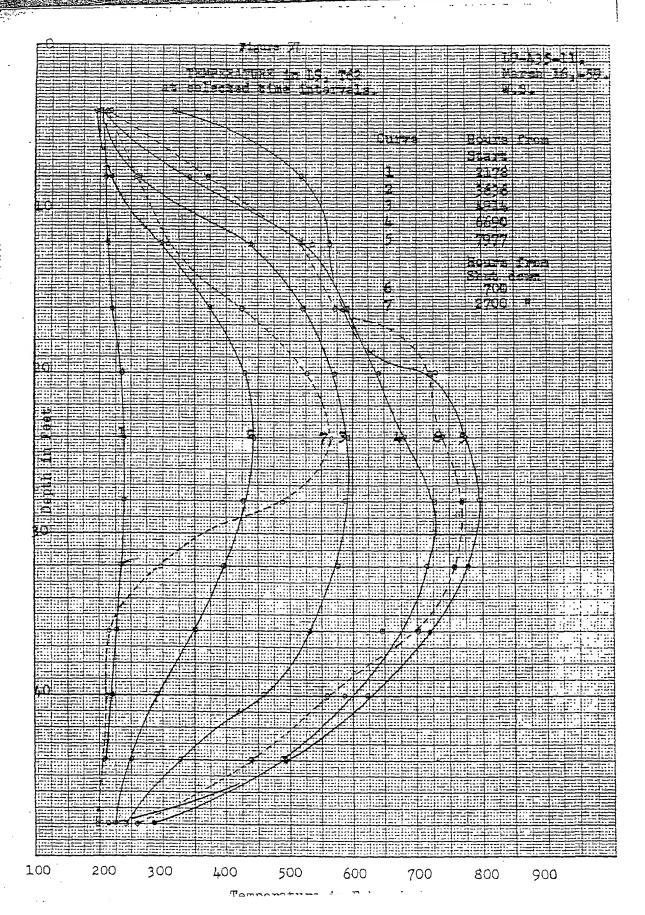


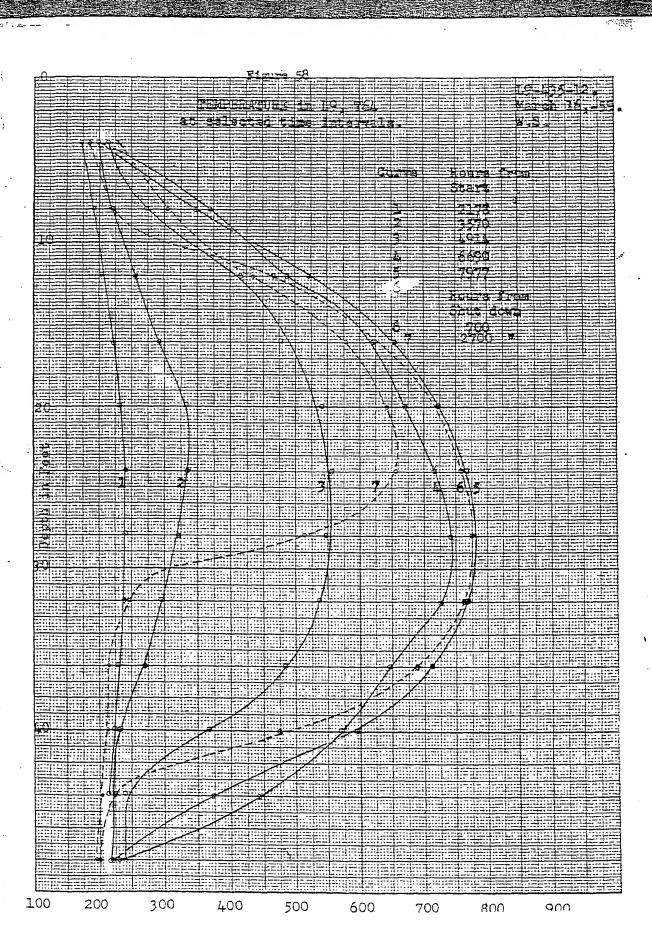
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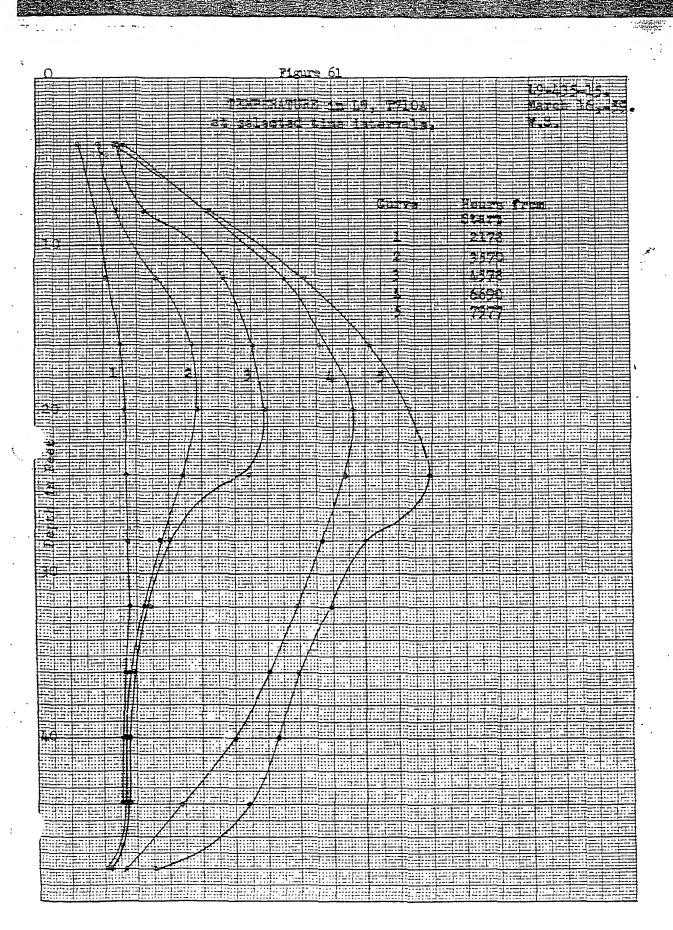
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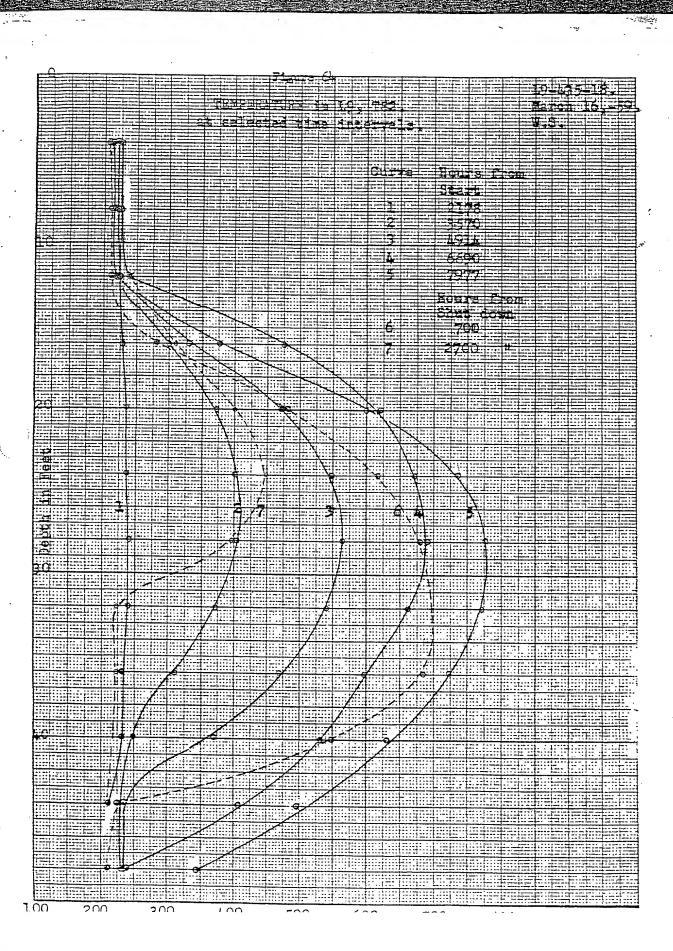
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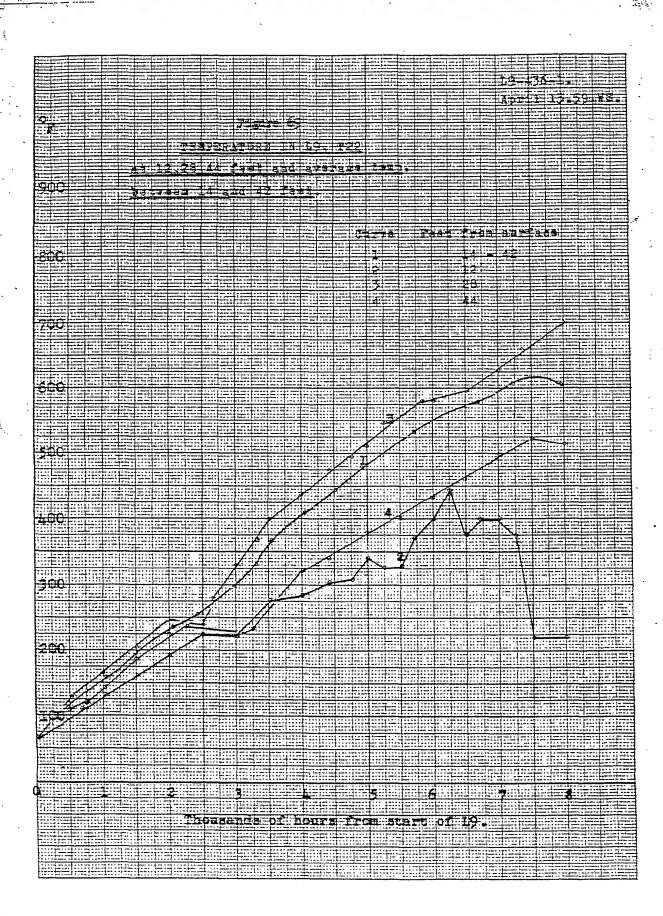
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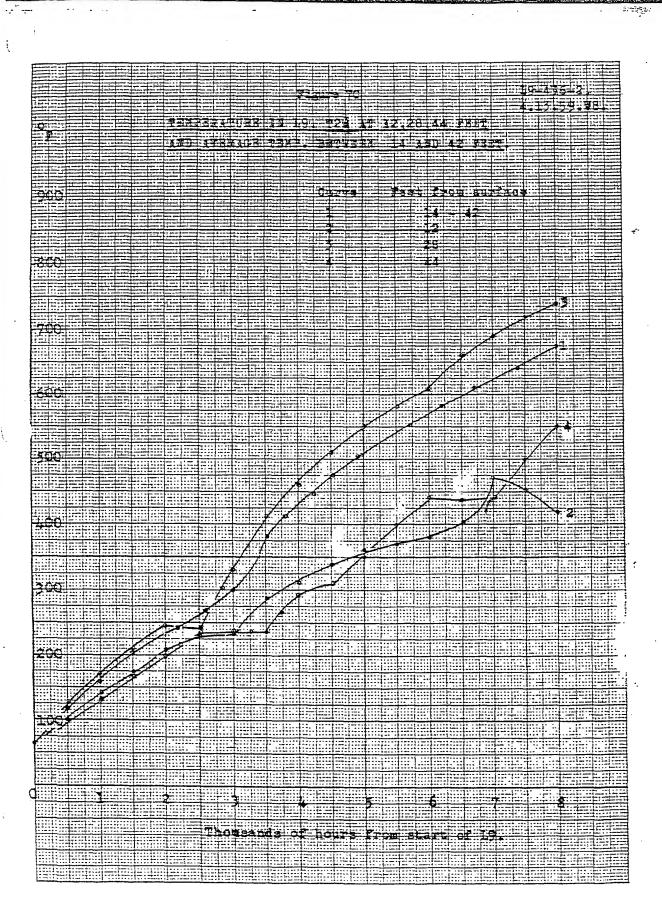
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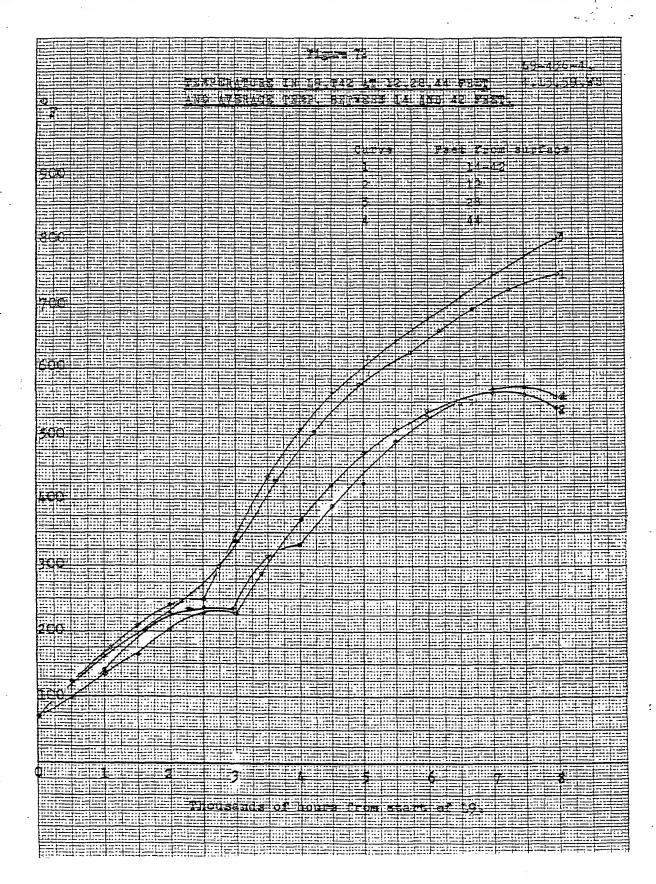
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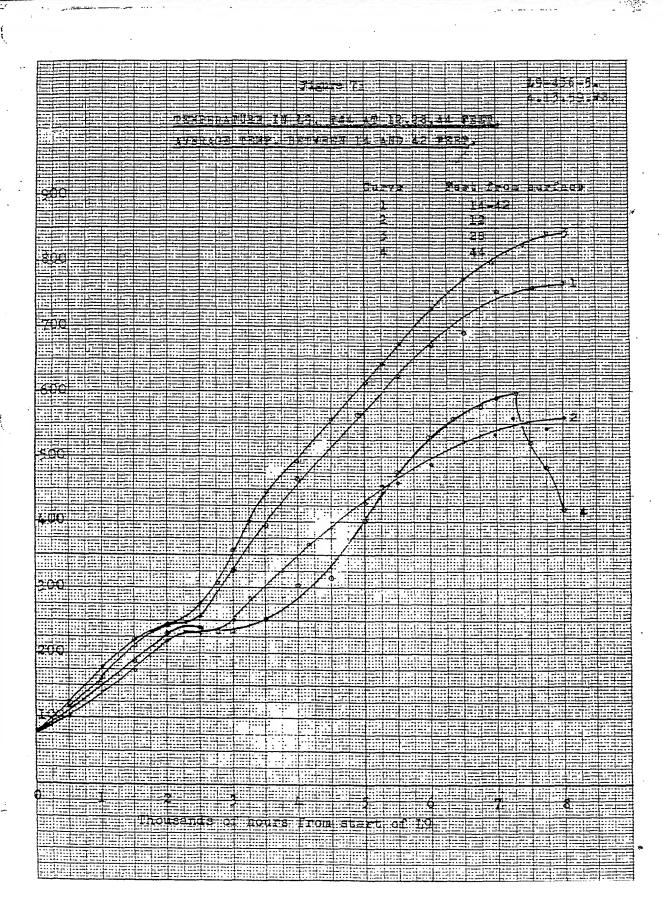
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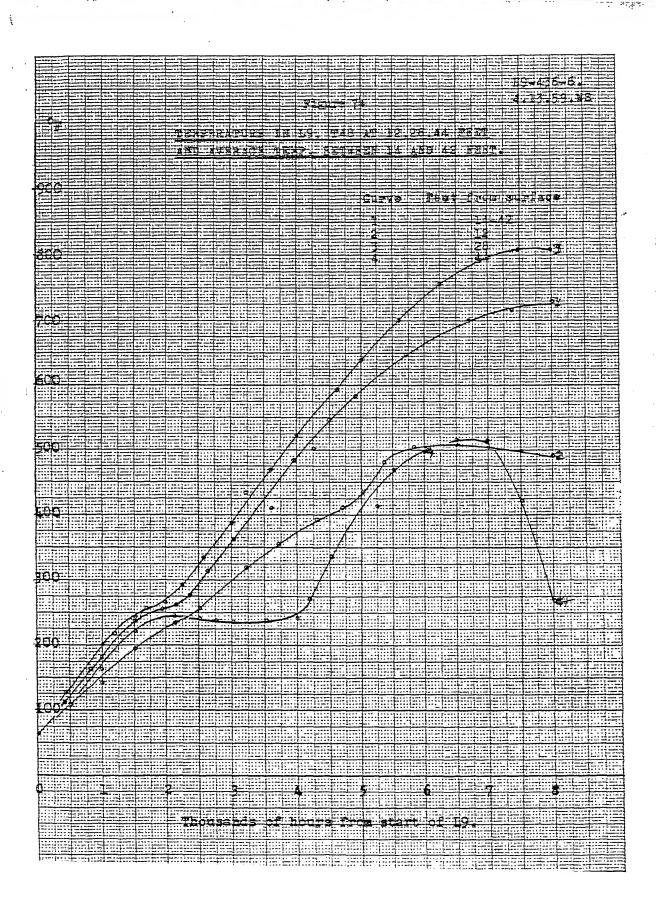


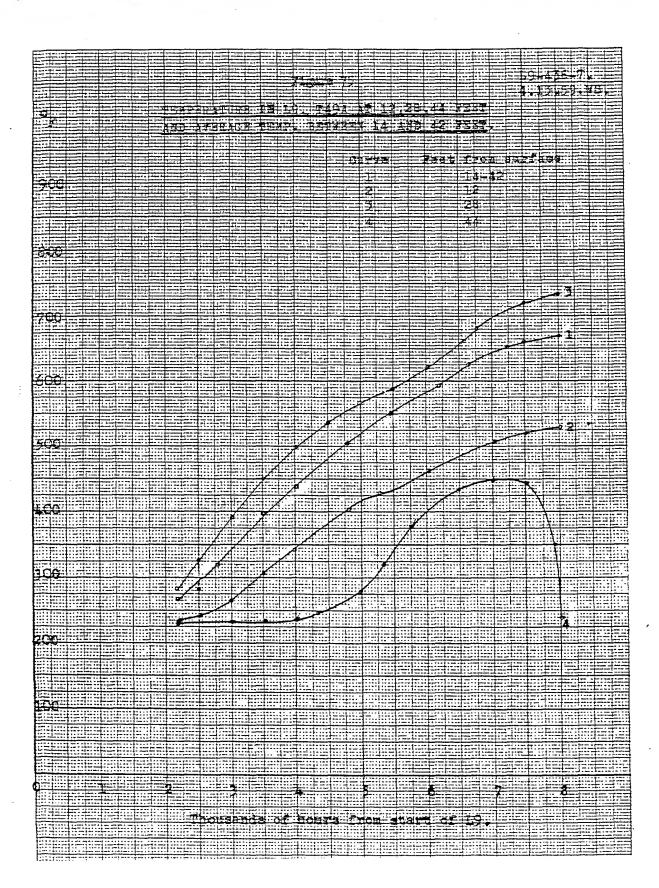


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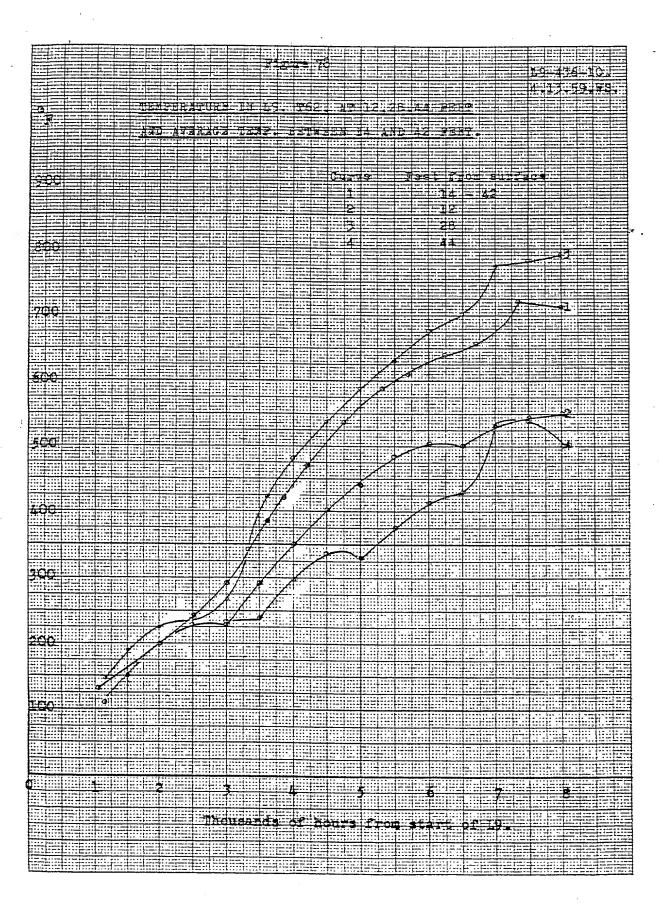


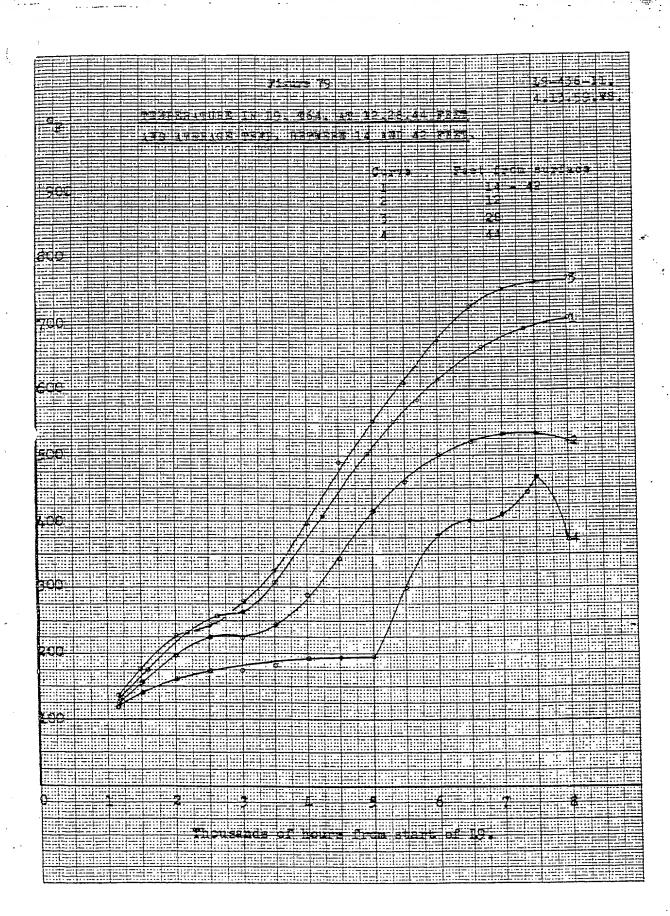
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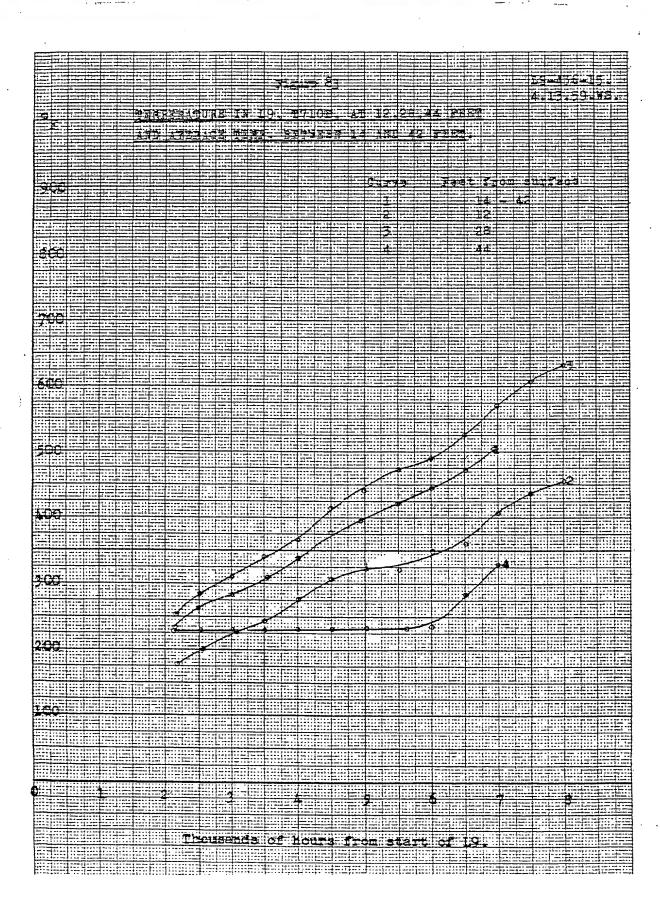


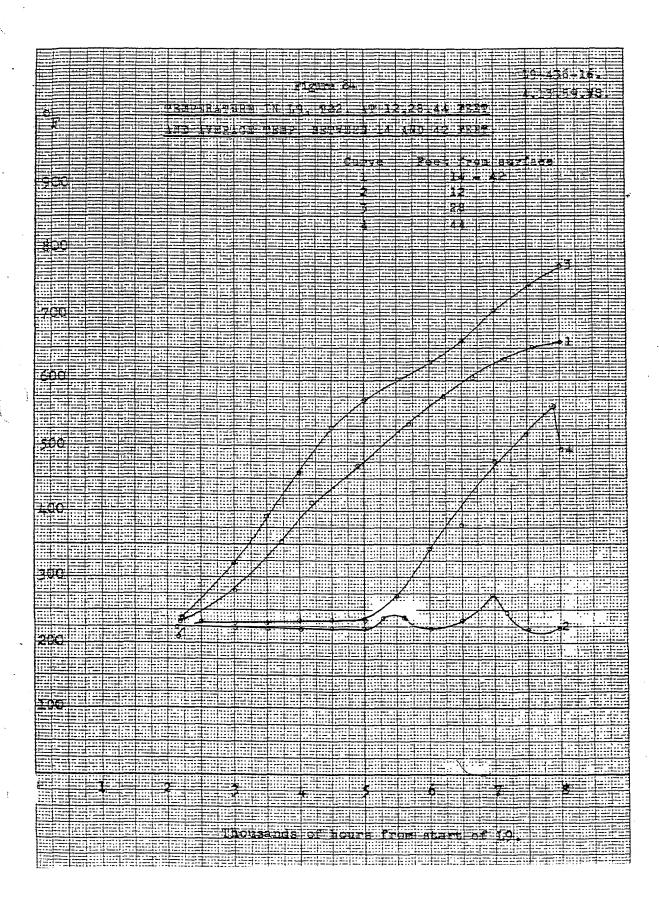
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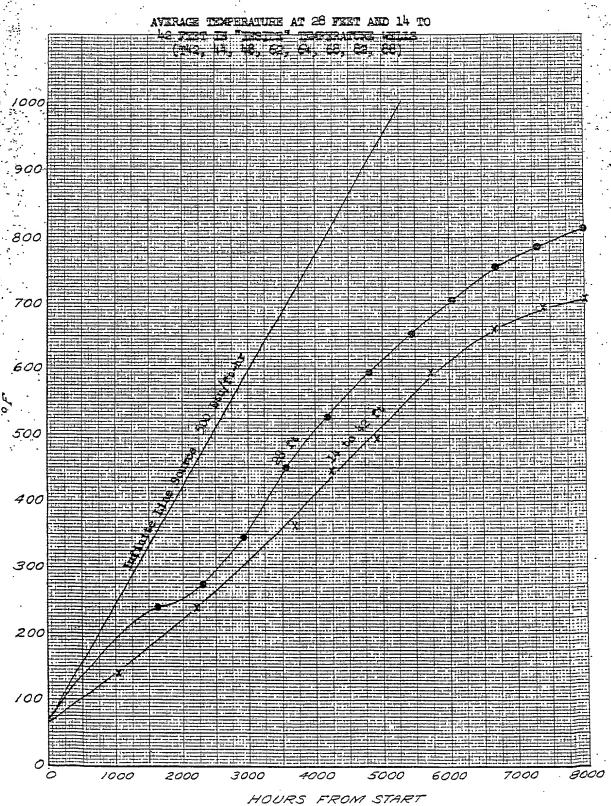
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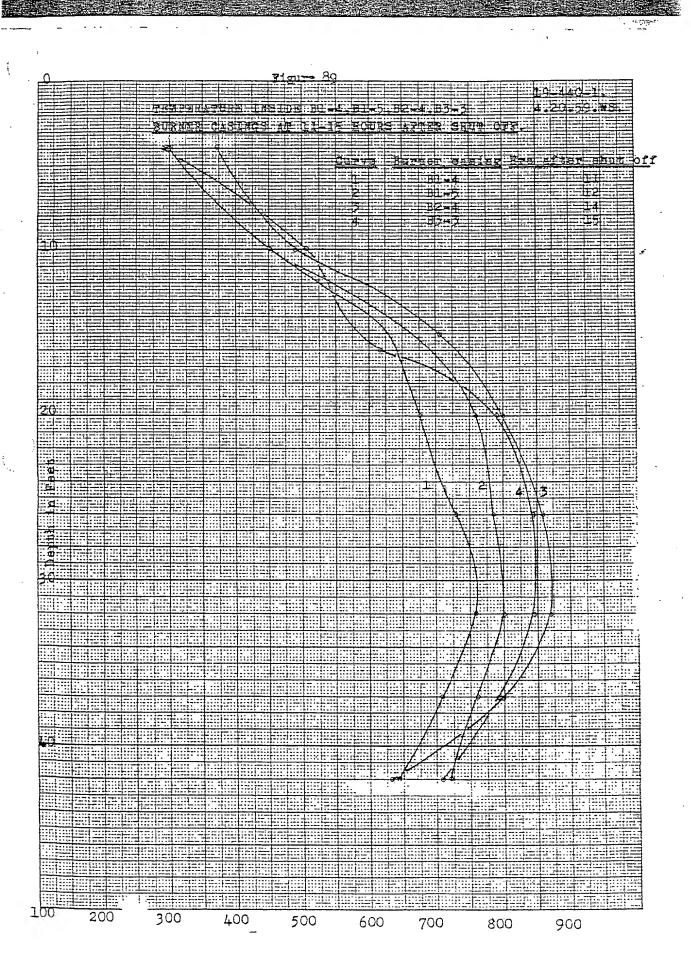
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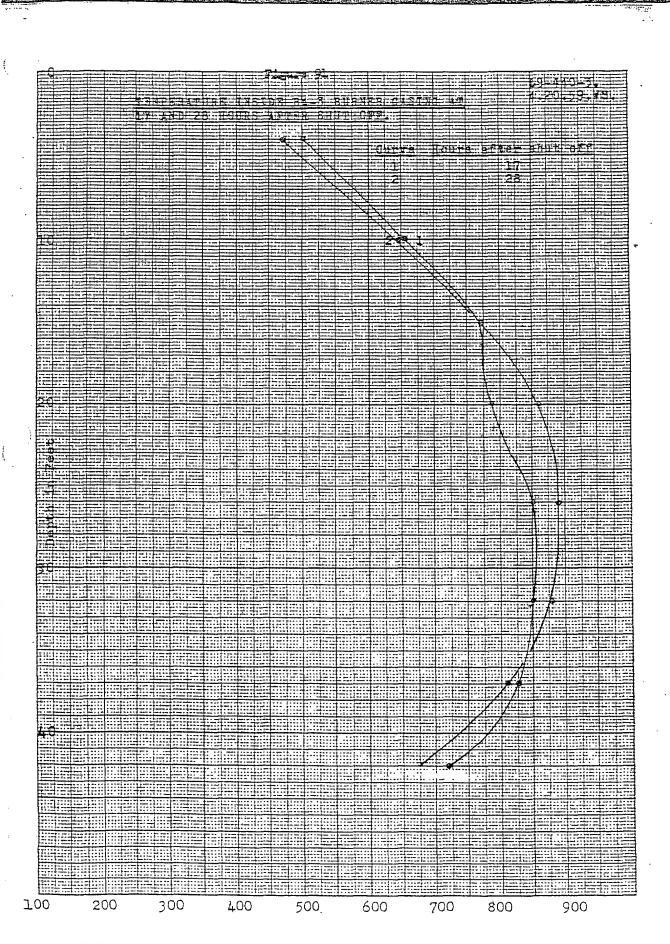
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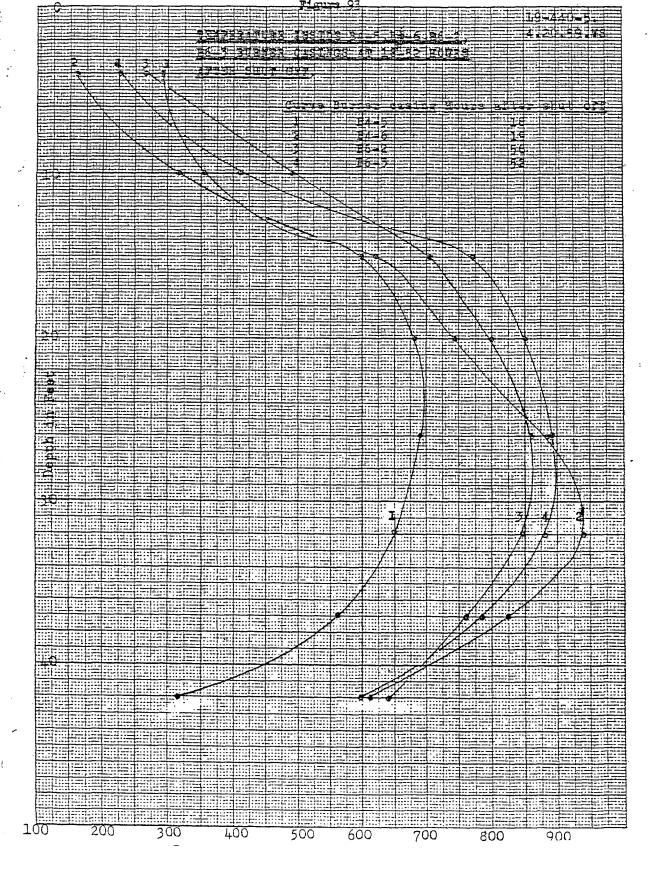
Figure 88

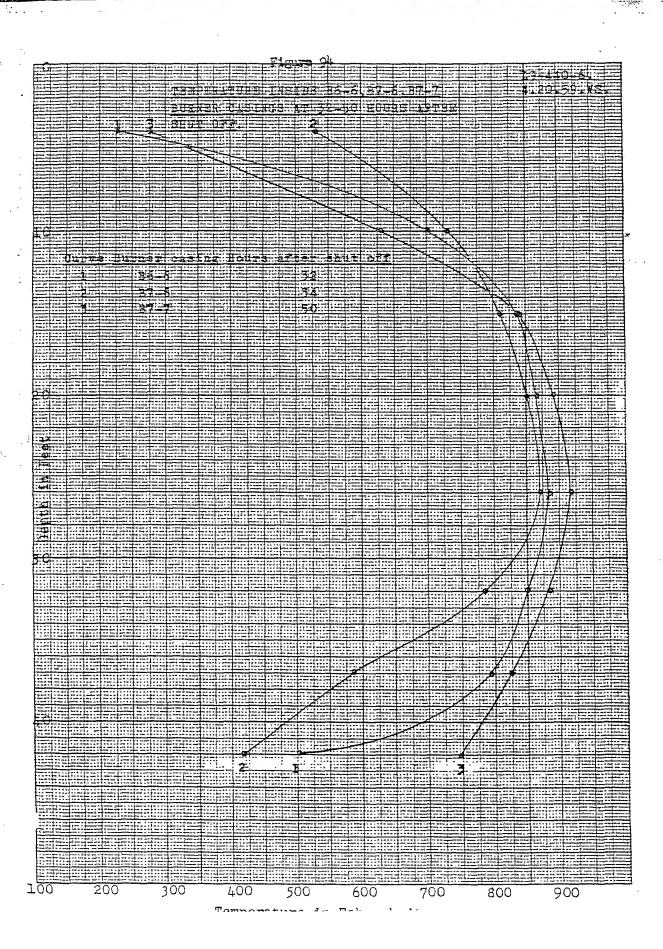


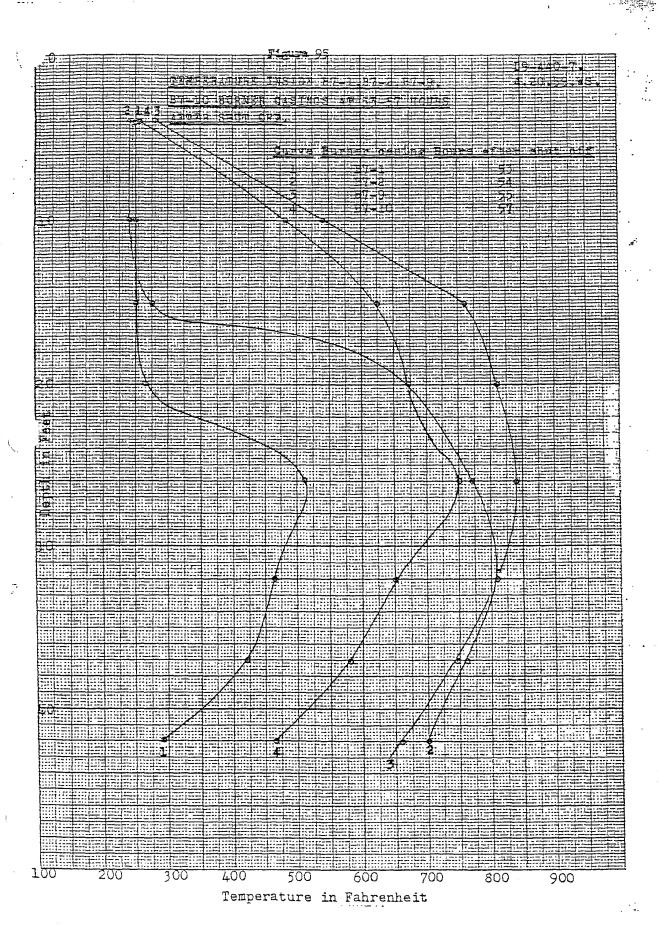


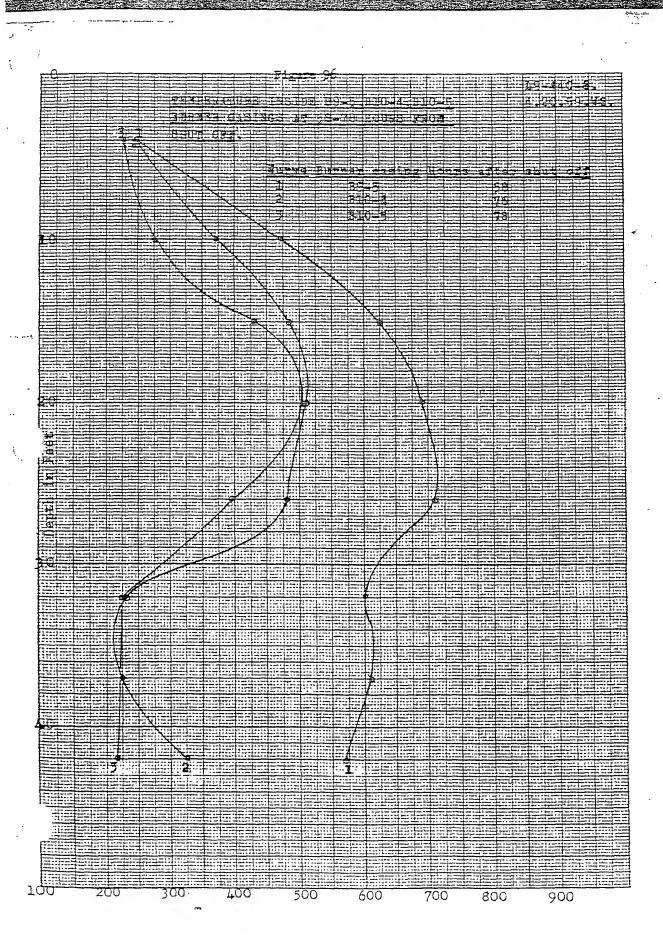


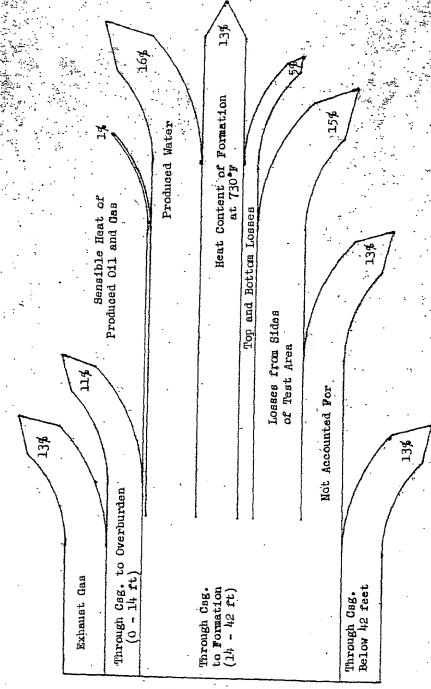
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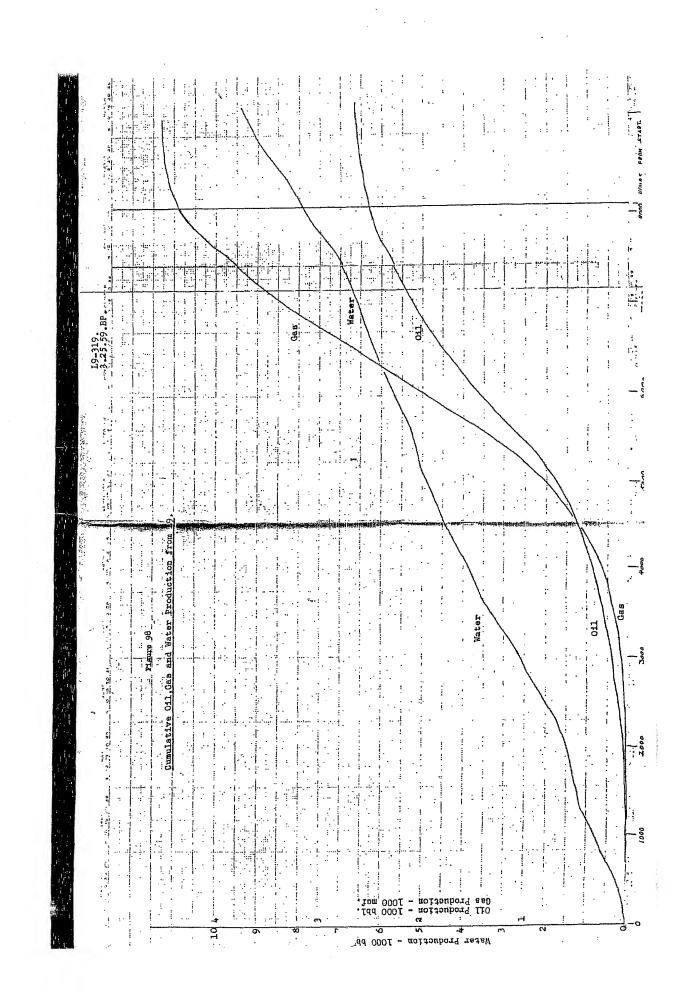


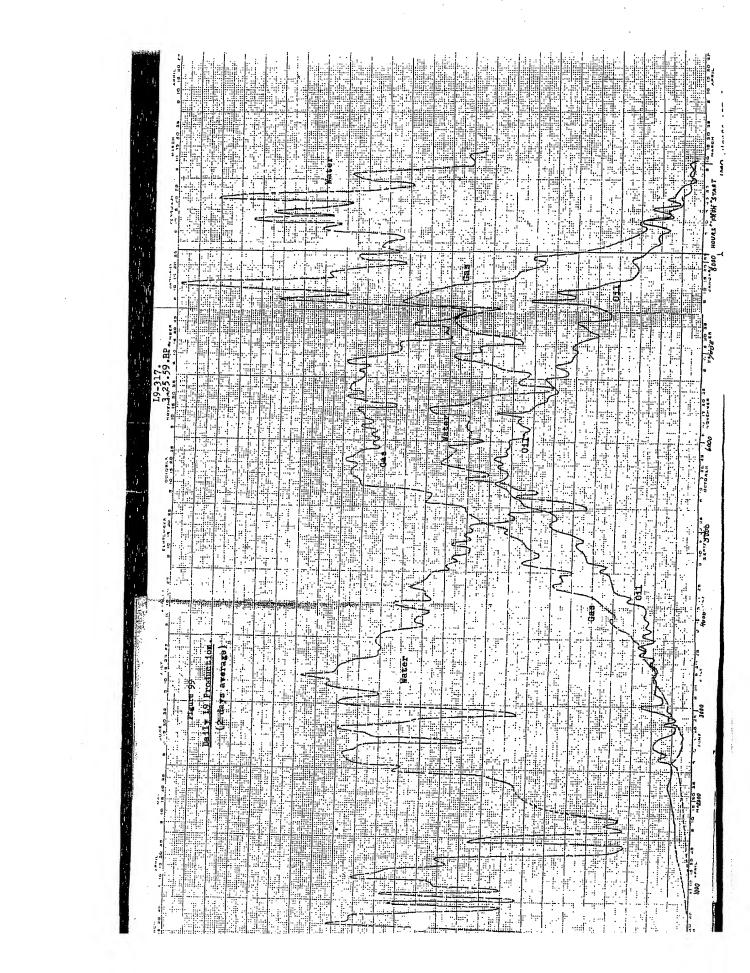




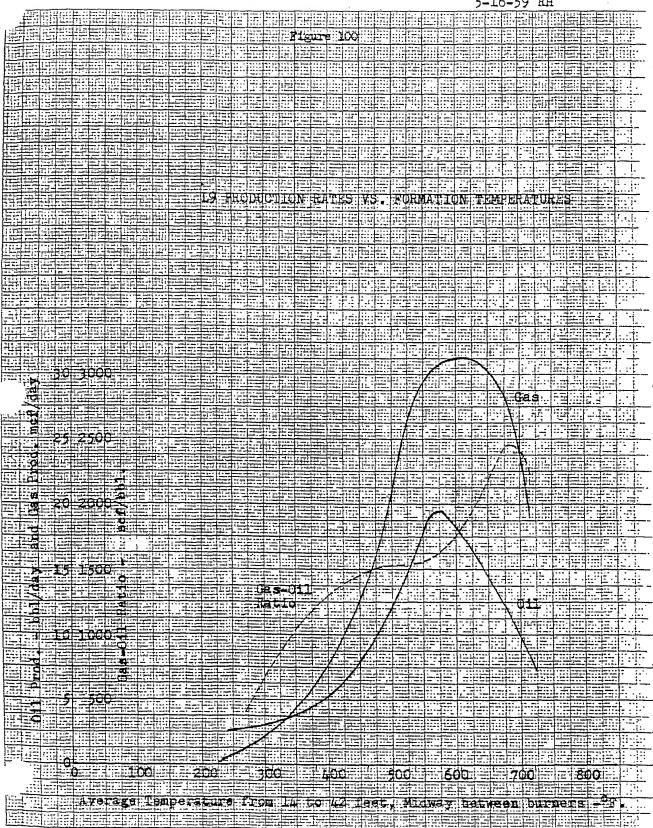
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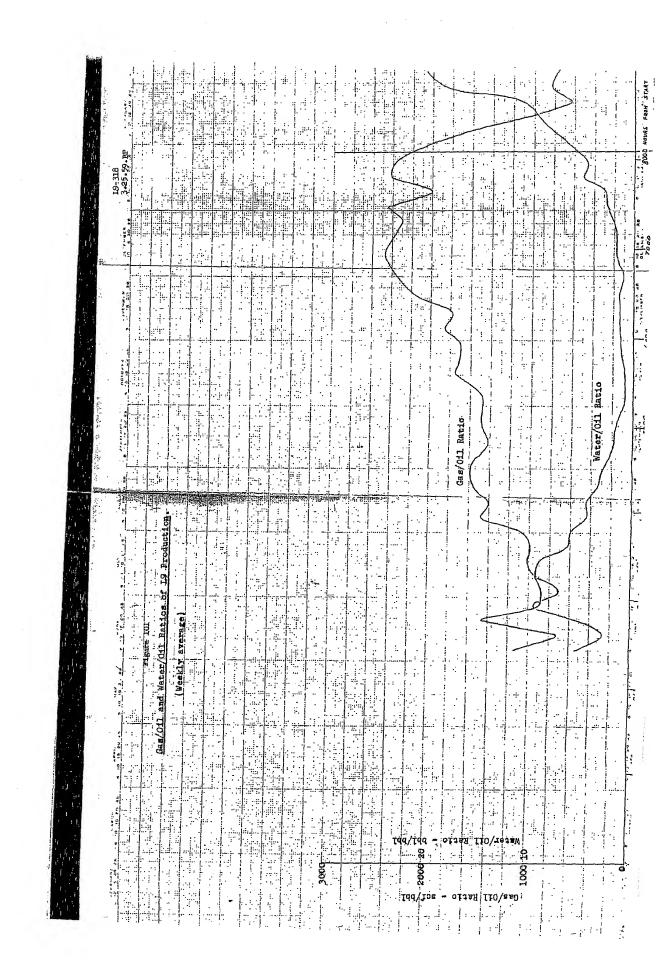
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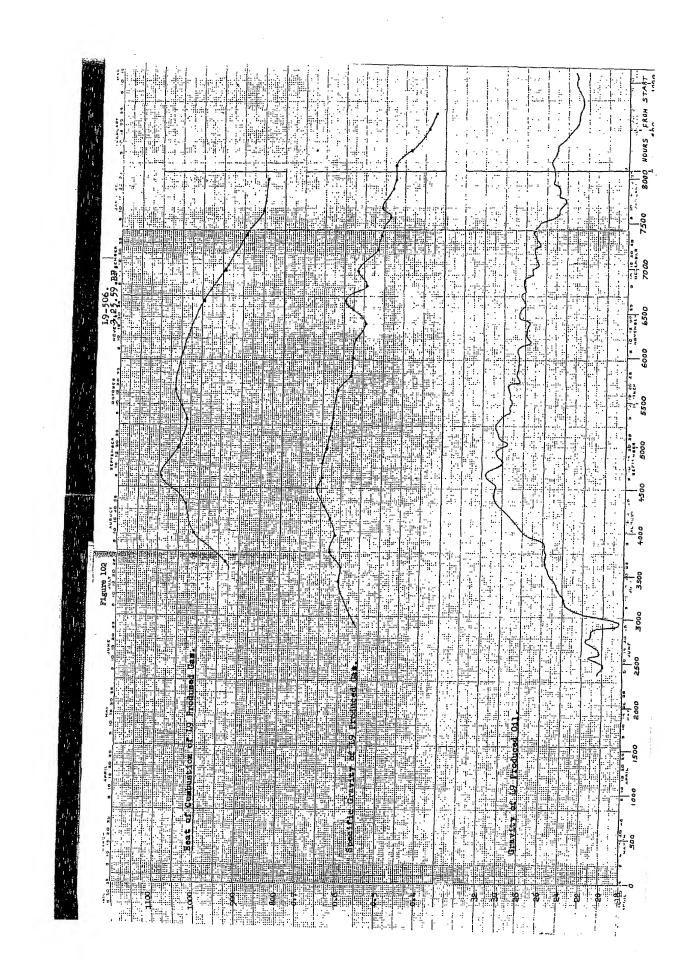




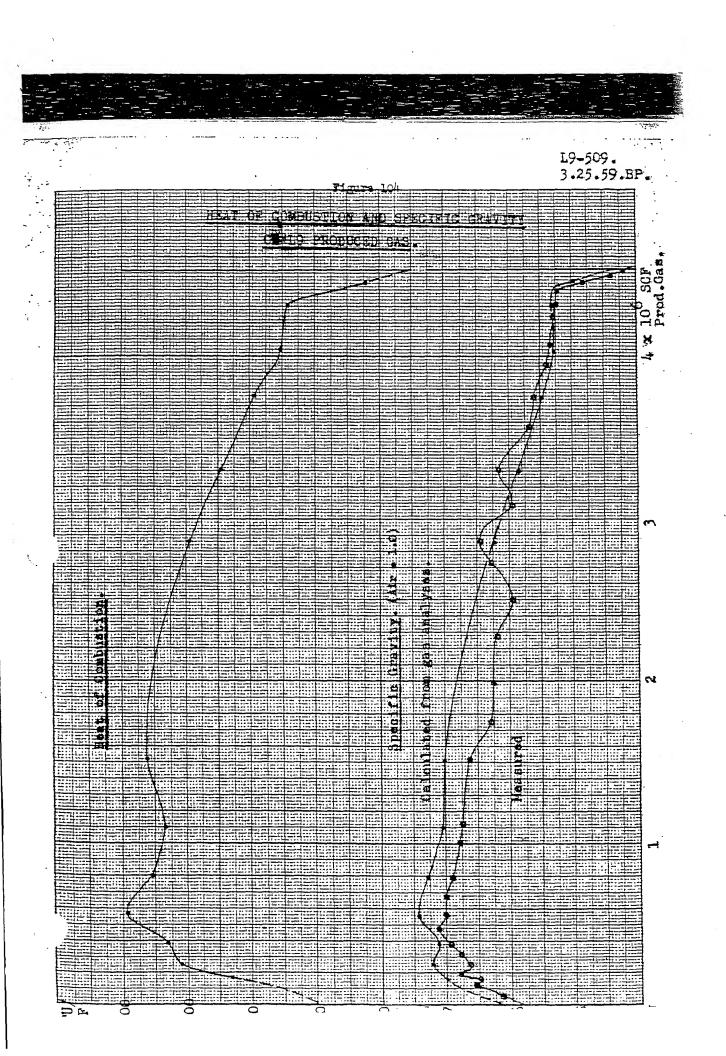
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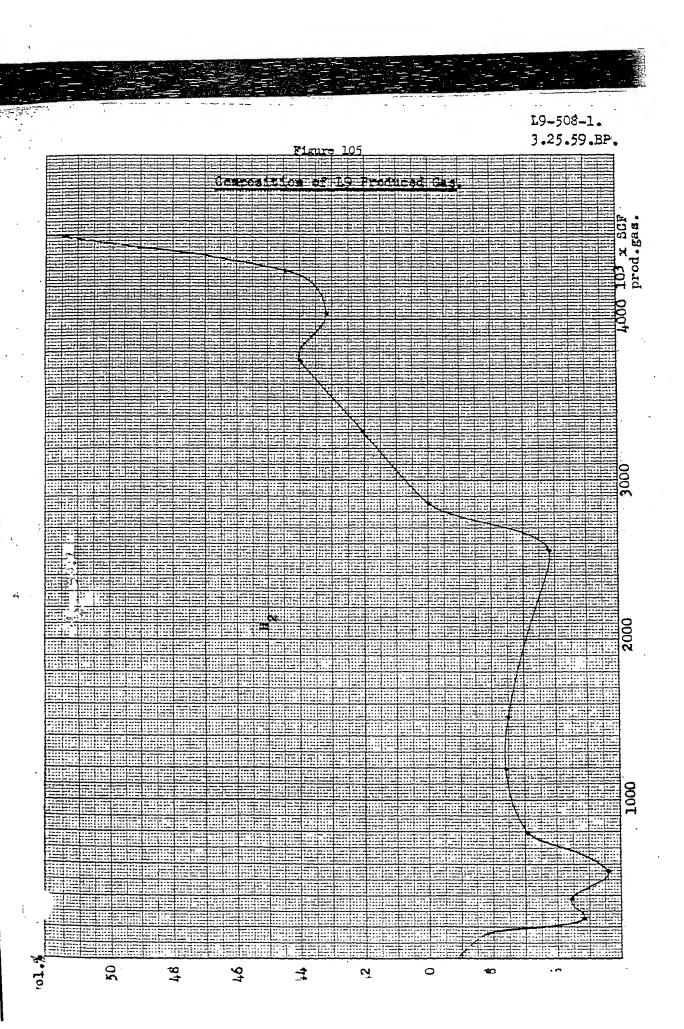


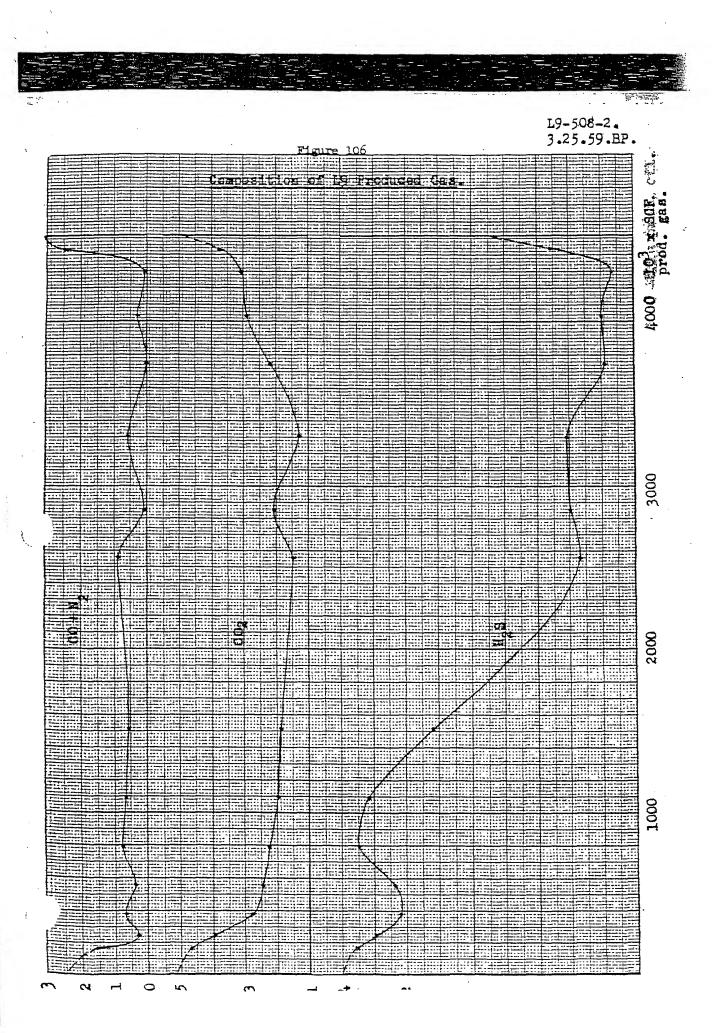


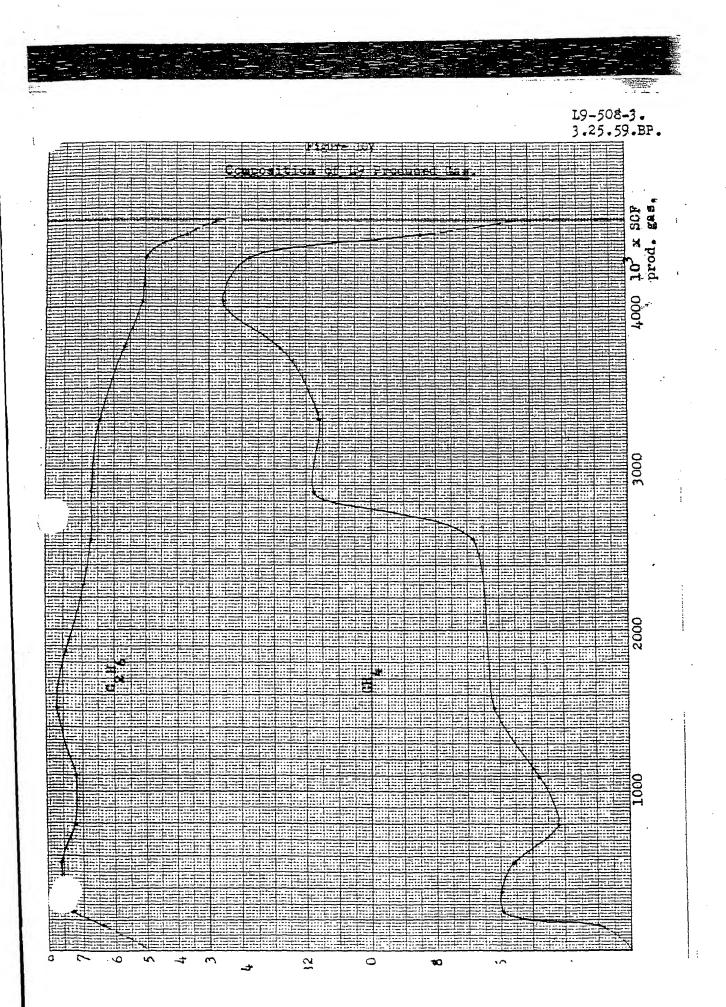


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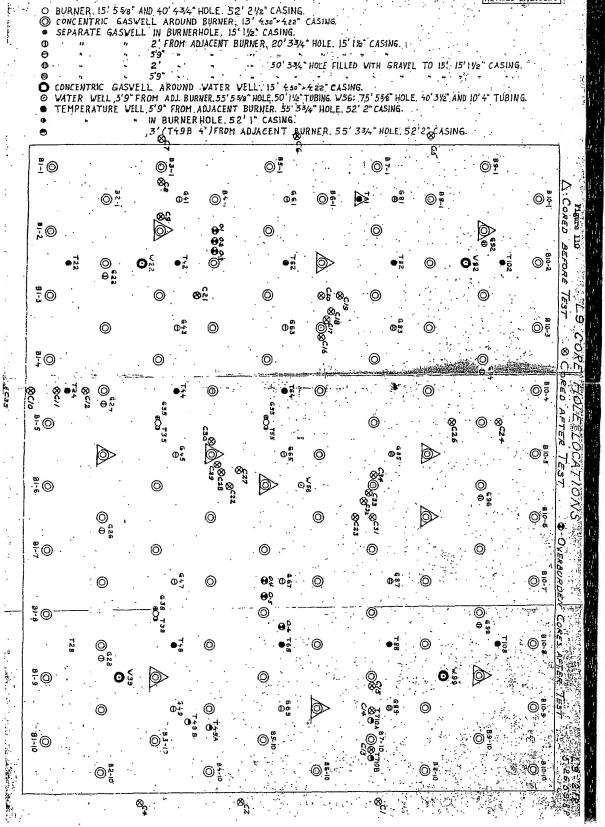


L9-508-4. 3.25.59.BP. 108

L9-508-5. 3.25.59.BP.

HOLE PATTERN OF TEST 19.

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L9 CORE HOLE LOCATIONS Figure 110

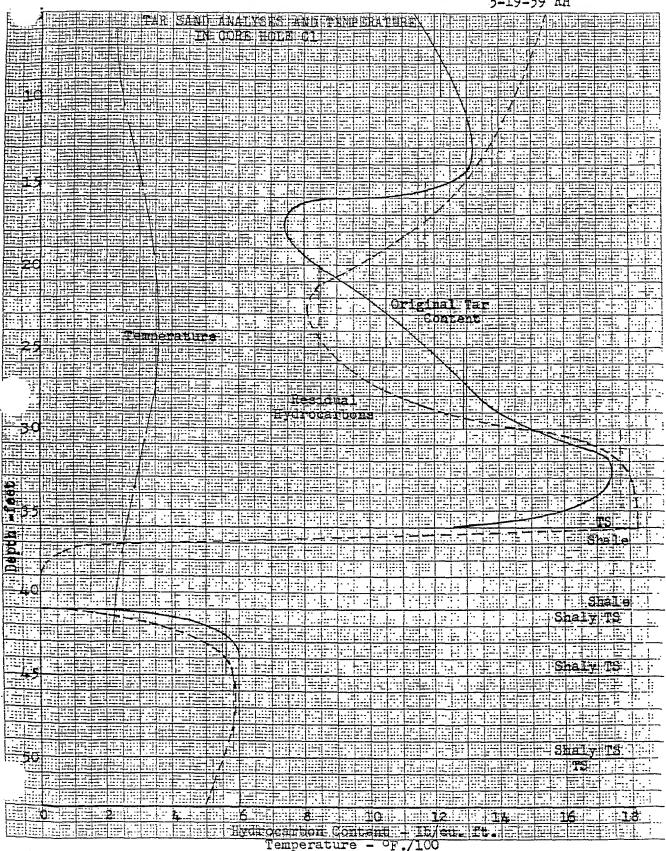
	•	••
Core Hole No.		Locations
Cl	•	10 * N. of B7-10 then 1 * west
C 2		
		10' N. of B5-10 then 4' - 4" west
C3		7' N. of C2
C4	:	10' N. of B3-10 then 2'-4" east
C 5	·.	10' S. of P8-1
c 6		10' S. of B6-1 then 4'-4" east
C7		5' S. of B3-1
c 8	•	2' N. of B3-1 (between B3-1 and B3-2)
c 9	:	2'-3-1/2" s. of B3-2 (-"-)
Clo	•	11'-5-1/2" E. of B2-4
CIL	,	7'-10-1/2" E. of B2-4
C12		3'-8" E. of B2-4 (between B2-4 and T24)
C13		1'-5" N. of 87-10
. C14		4'-6" S. of B7-10 (between B7-10 and B7-9)
C15		1'-1-1/2" N. of E7-9 ()
c1 6		10" N. of B6-3
C17		1'-5" from B6-3 towards B7-2
C18	٠	21-11" * * *
C1 9		5'-9" " " " (between B6-2, 6-3, 7-3)
C 20		5' S. of B6-3 (between B6-2 and B6-3)
C21		Midway between B3-3, B4-2, and B4-3
C22		" B4-5, B4-6, and B5-6
c 23		" B6-6, B7-6, and B7-8
C24		2'-5-1/2" west of B9-5
C 25		3'-5" east of B9-5
V-)		3 -) east at 19-7

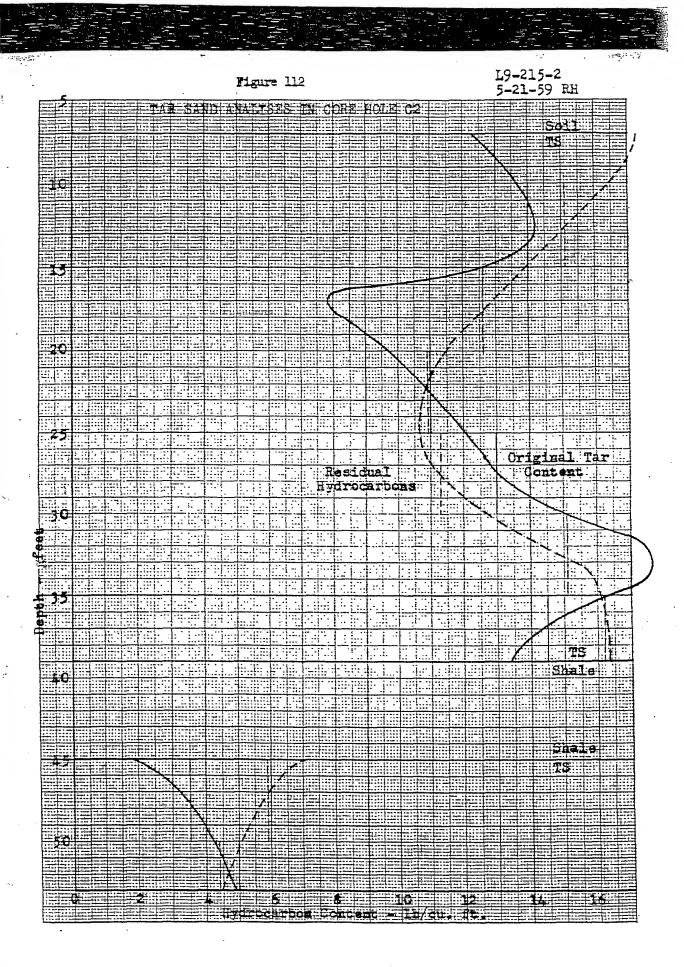
19 CORE HOLE LOCATIONS Figure 110

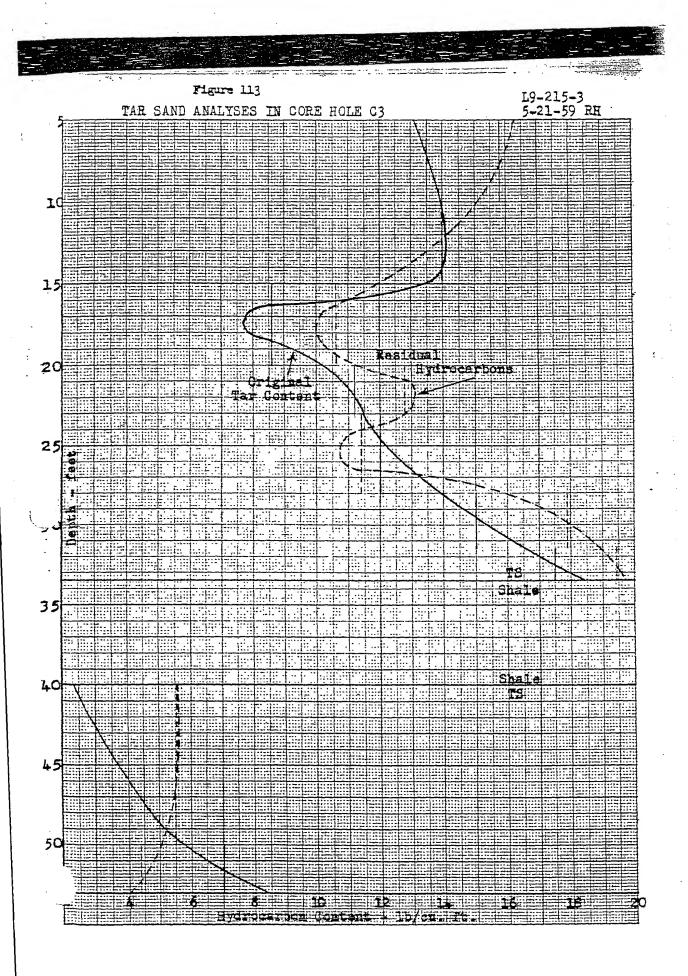
Core Hole		-		Loc	ations		
c 26	•	4*-5"	east	of B9-	5		
C27	*•,	5' fro	n Bi-	5 betw	reen Bi-	-5 and	B5 - 6
c 28		2*-11*	from	B4-5	towards	3 B5-7	
c 29		1"-5"	787		11	*	
c 30		11*	*	**	×	Bit	
C31	•	51 fro	m B7-	6 beta	een B7	-6 and	B7-7
c 32		2'-11"	fra	B7-6	toward	в В6-7	
c 33		1'-5"	Ħ	*	#	*	
C 3 ¹ 4	• .	10" to	12*	from I	37-6 to	wards E	1 7- 5
c 35	•	141-7-	1/2"	east o	ag B5→		

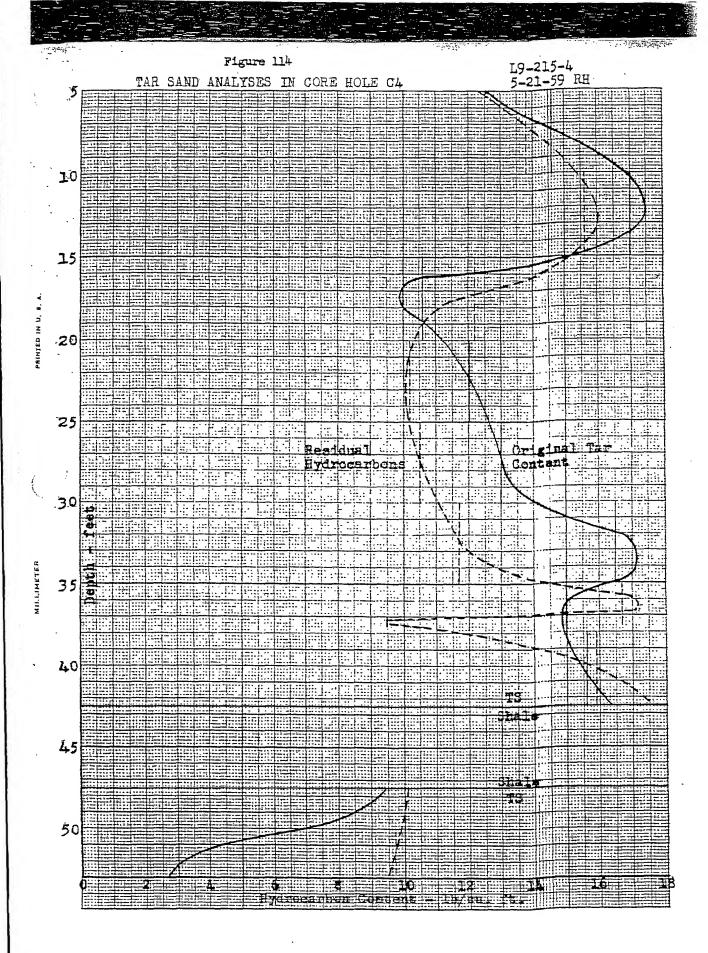
Figure 111

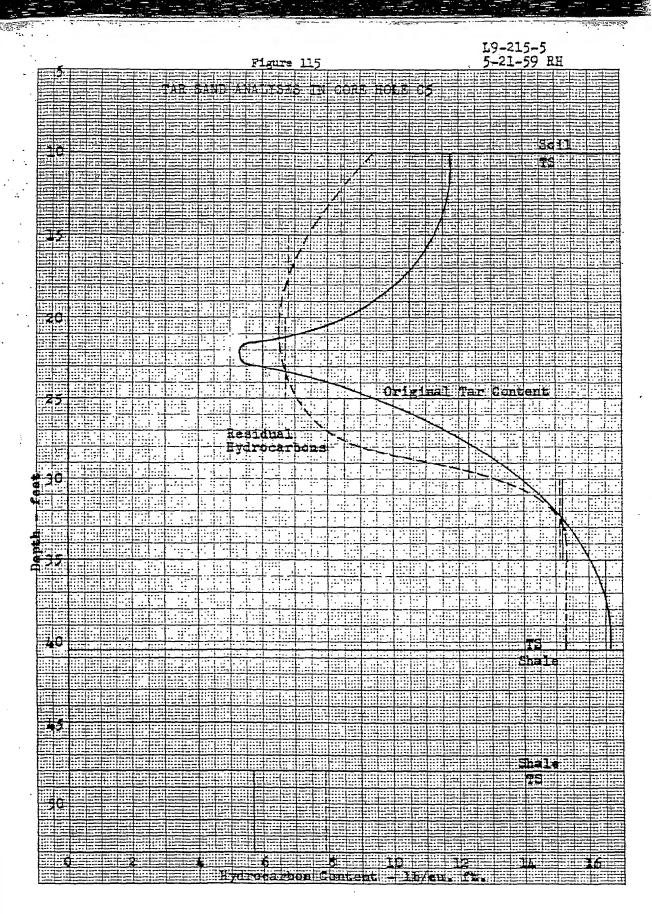
L9-215-1 5-19-59 RH

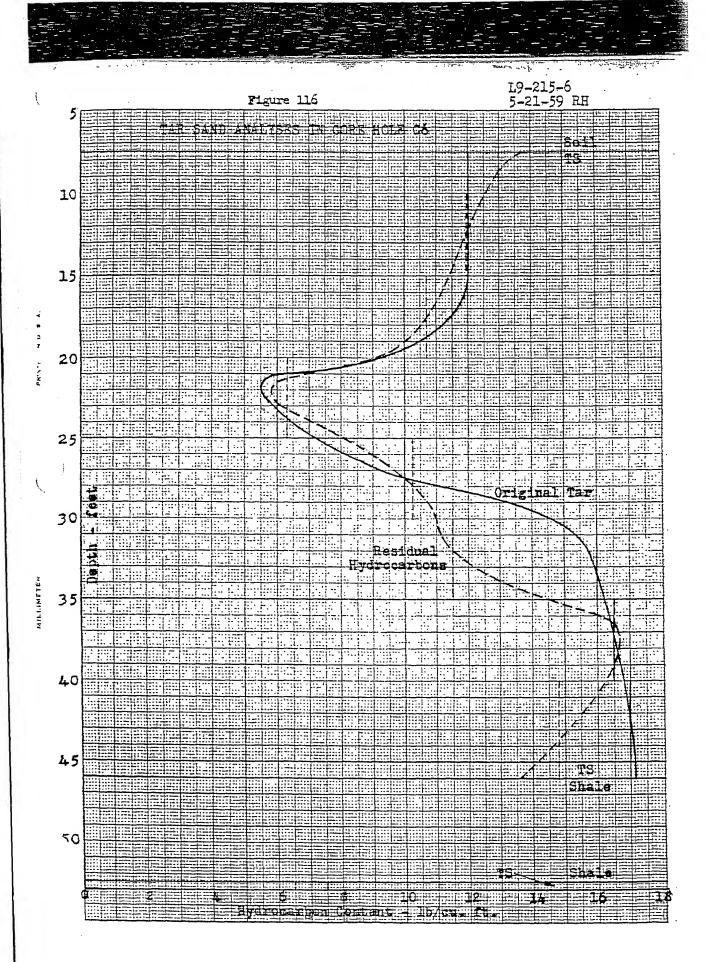


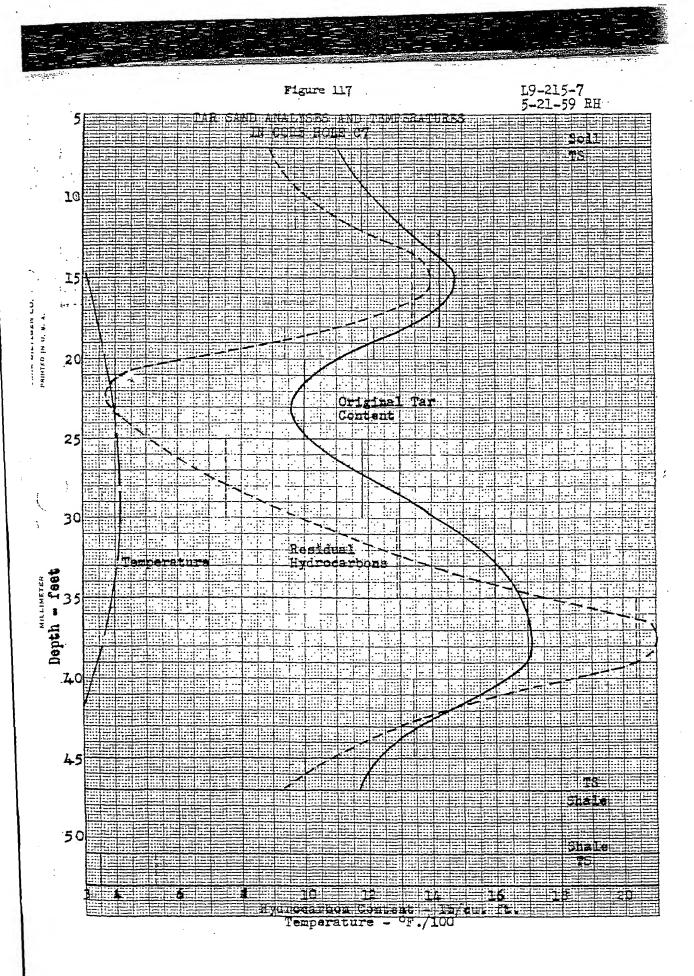


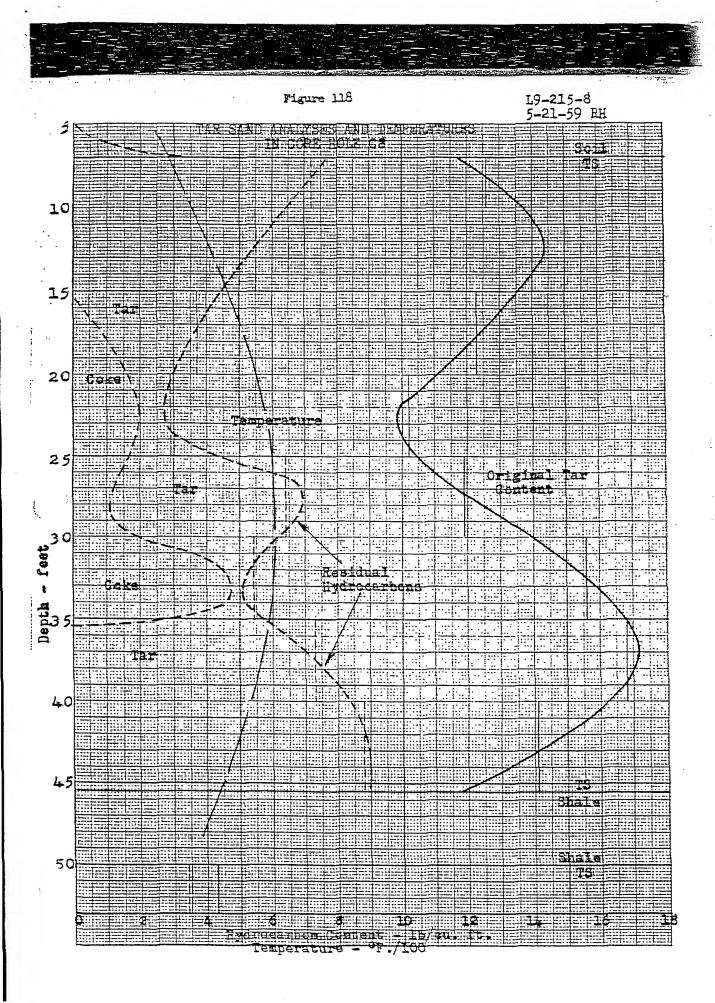


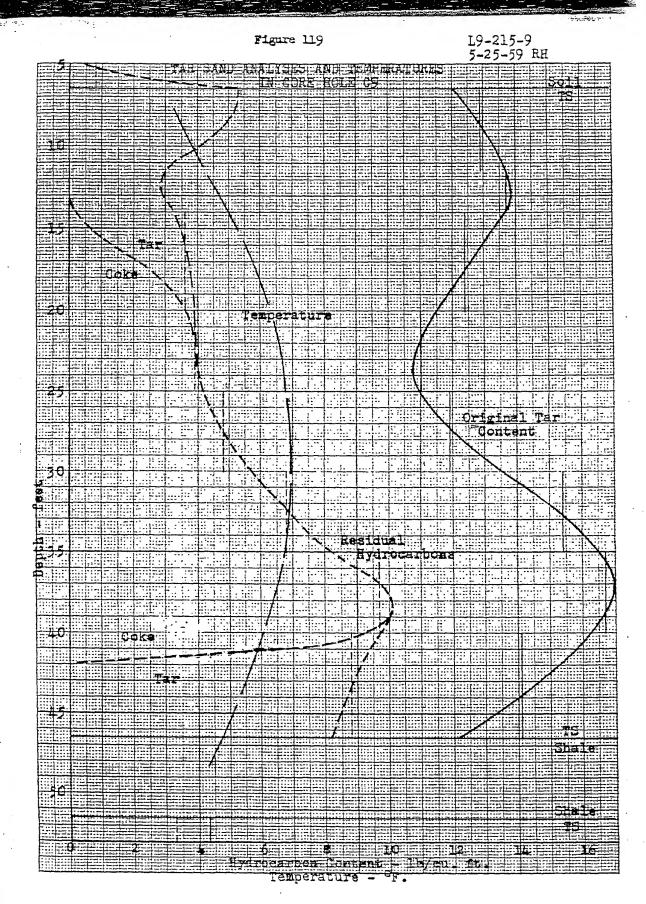


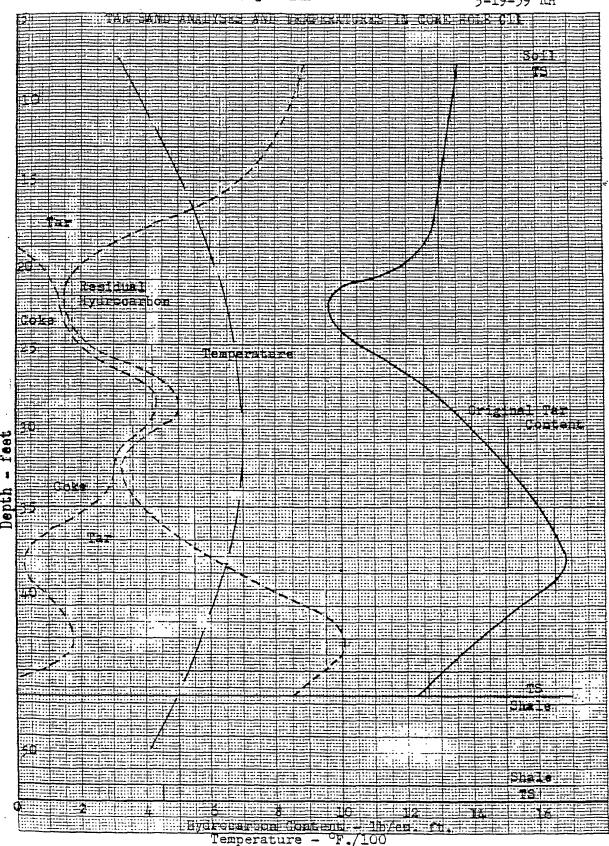




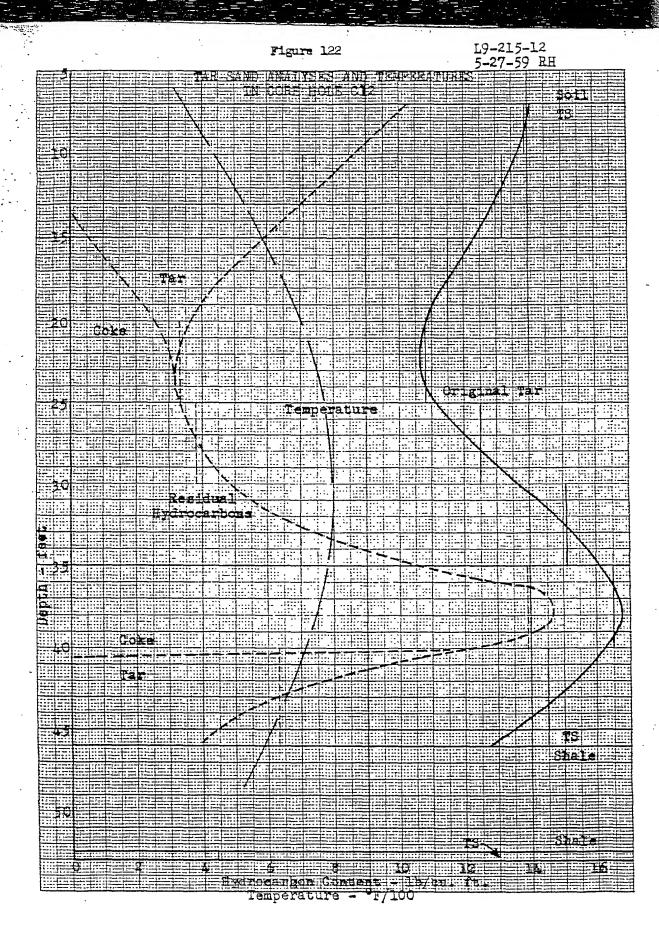


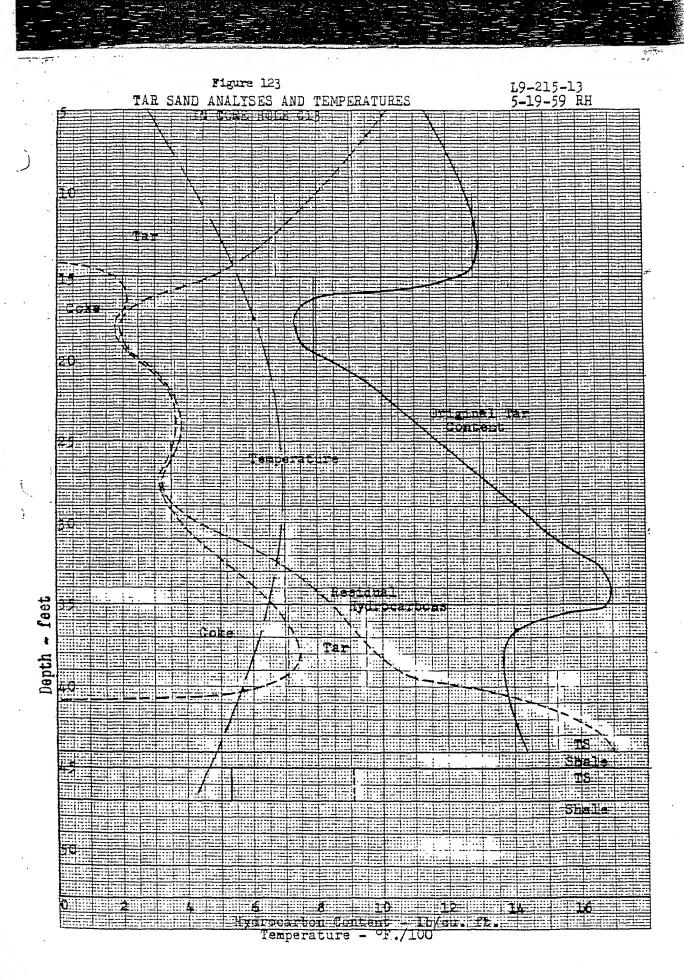


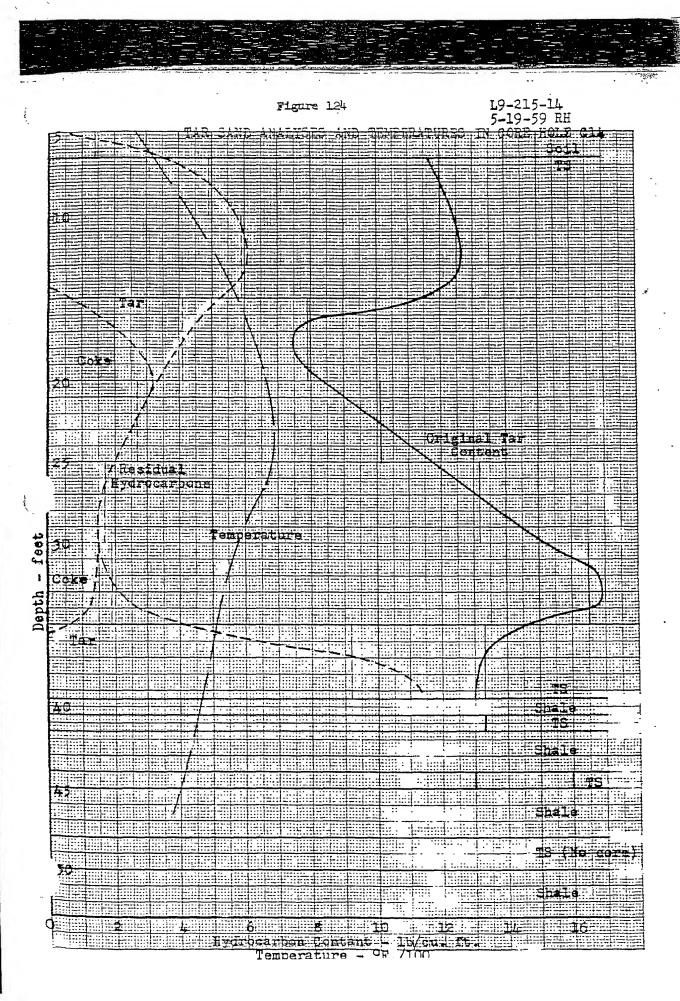


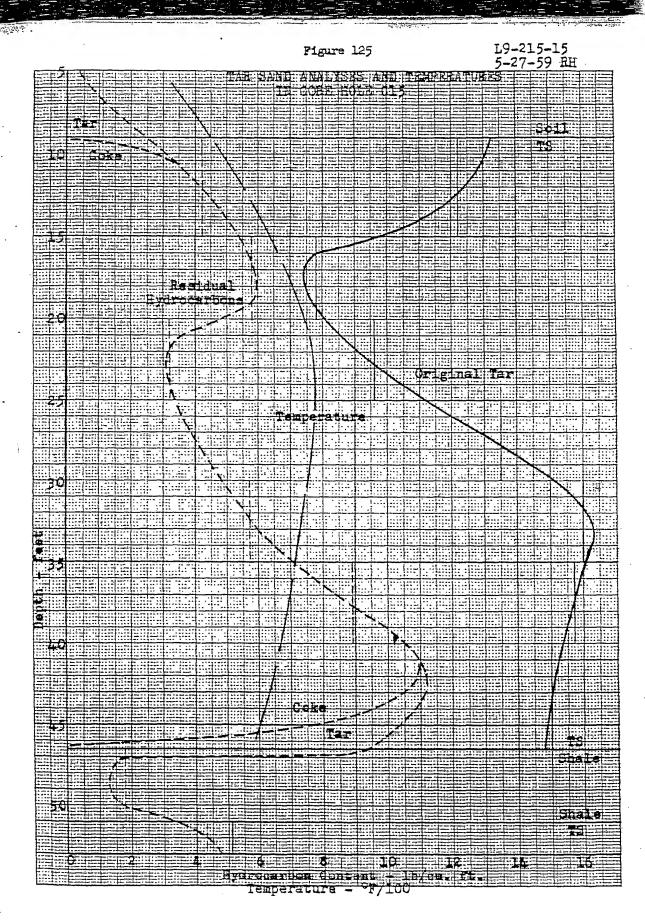


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L9-215-16 Figure 126 5-14-59 RH TAR SAND ANALTSES AND TEMPERATURES IN CORD HOLE CL6 ResiduaLt Bydrocarbons Temperature - Lb/cut ft.

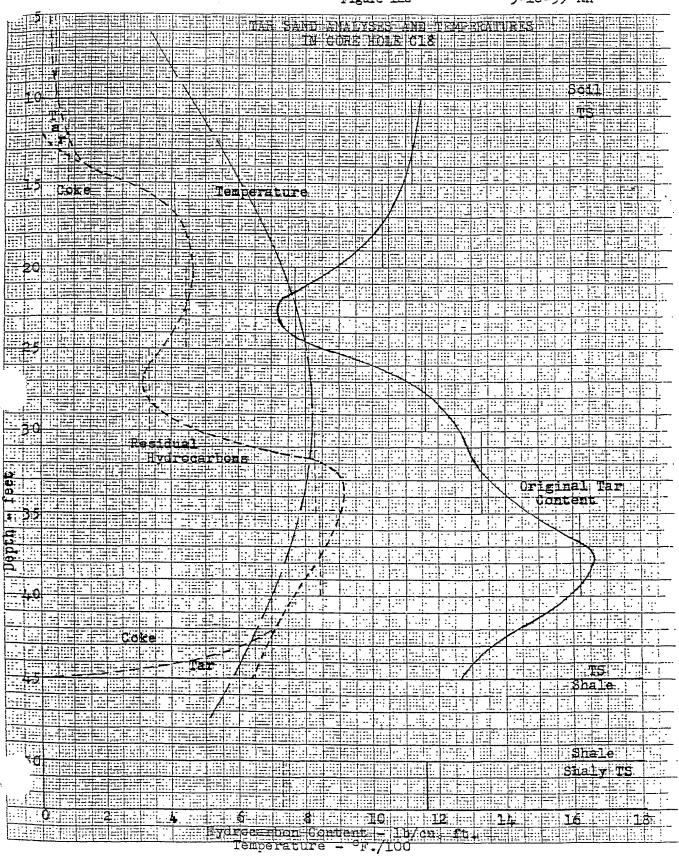
Figure 127

L9-215-17 5-18-59 RH

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Figure 128

L9-215-18 5-18-59 RH



L9-215-19 5-18-59 RH

Figure 129

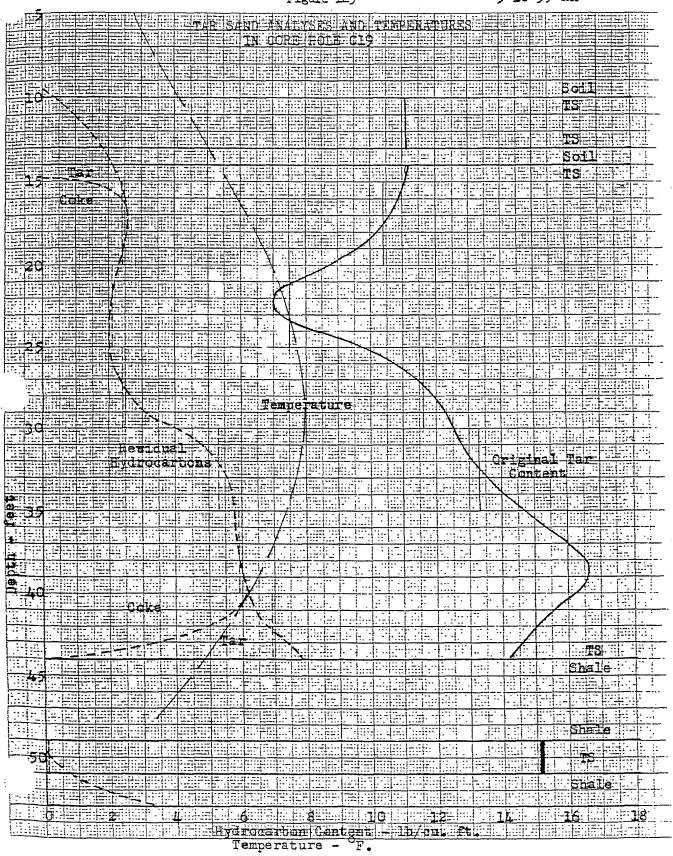
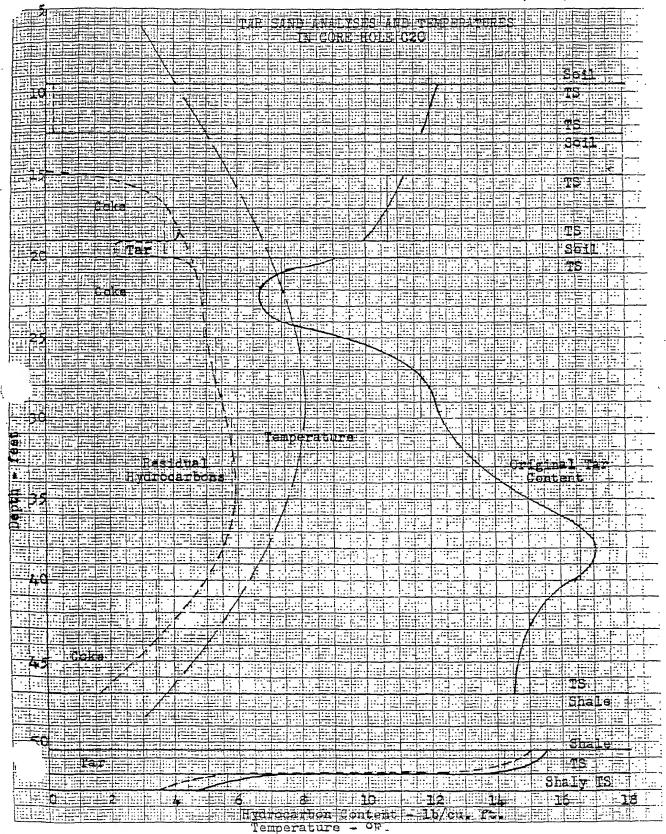


Figure 130

19-215-20 5-18-59 RH



L9-215-21 5-18-59 产的控制和行

Figure 131

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Figure 132 L9-215-22 5-18-59 RH 7 :: 30 Temperature Hydrocarbons 11: 1 -Coke - - -F: F: E: E: ٦. o. E Tar 40 7-<u>:::|::</u> THE REPORT OF THE PROPERTY TO 1 0 1 2 2 4 4 1 2 2 Temperature -

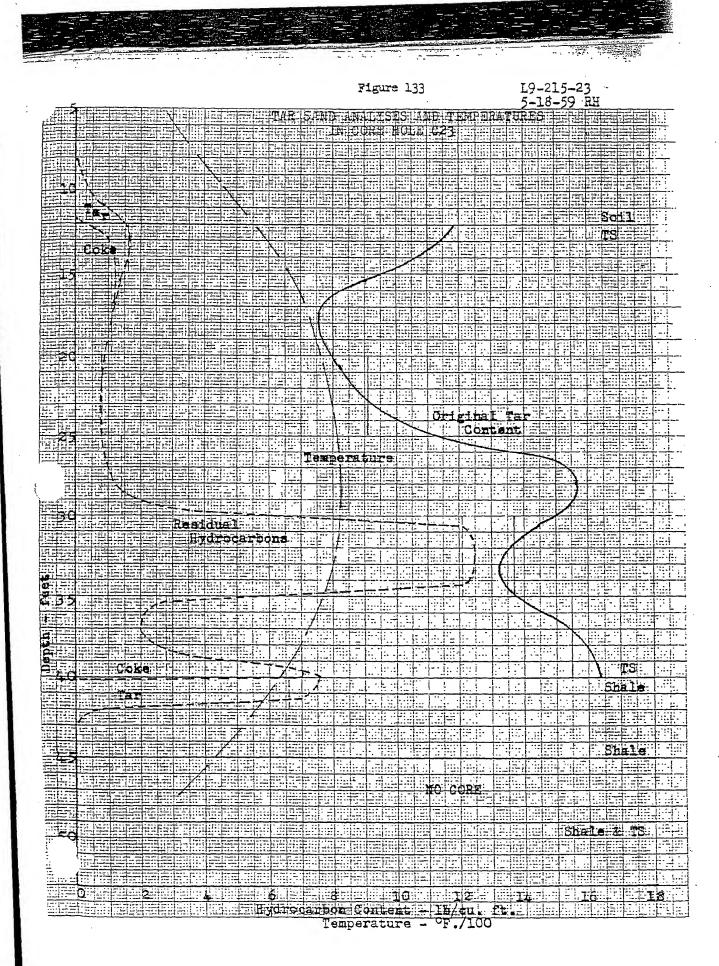
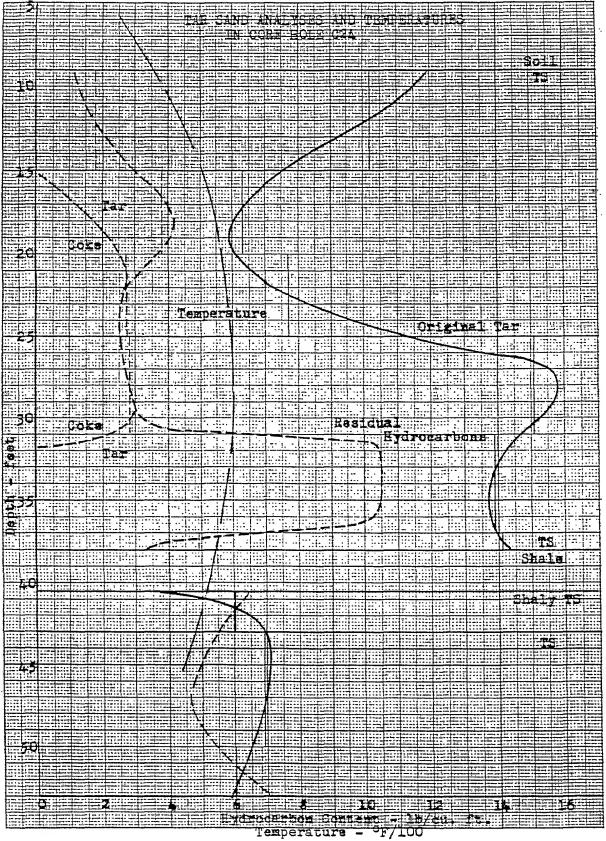
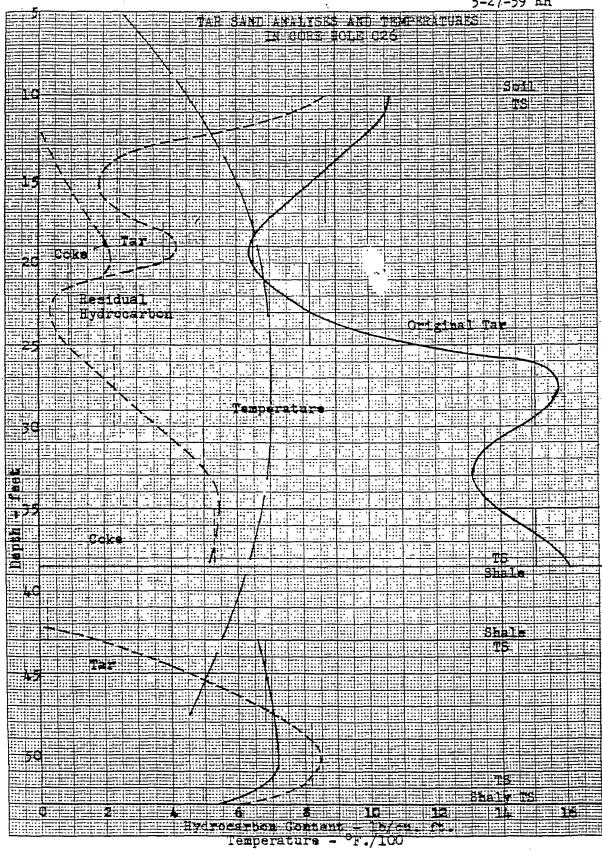


Figure 134

L9-215-24 5-27-59 RH





L9-215-27 5-18-59 RH

Figure 136

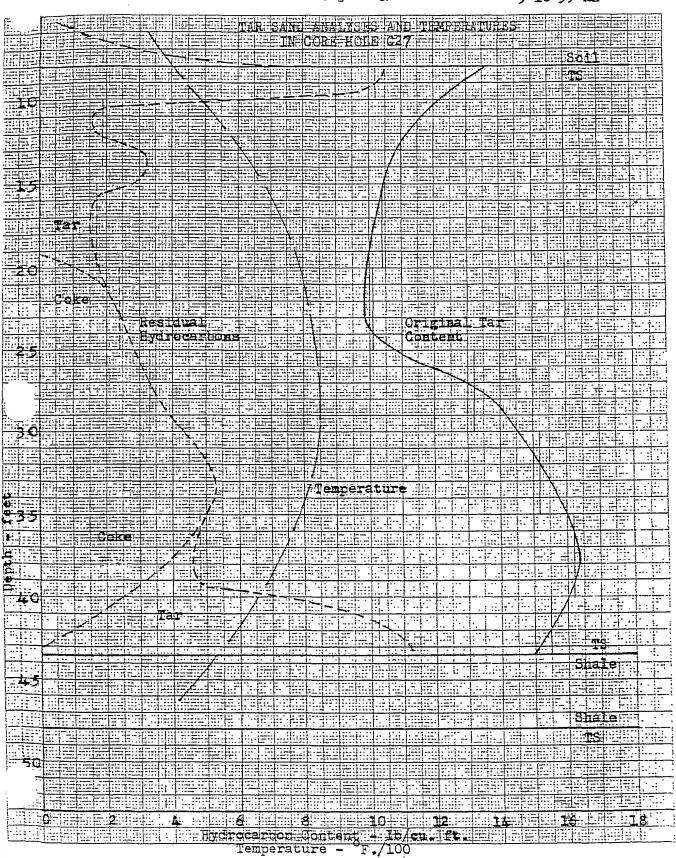


Figure 137

L9-215-28 5-18-59 RH

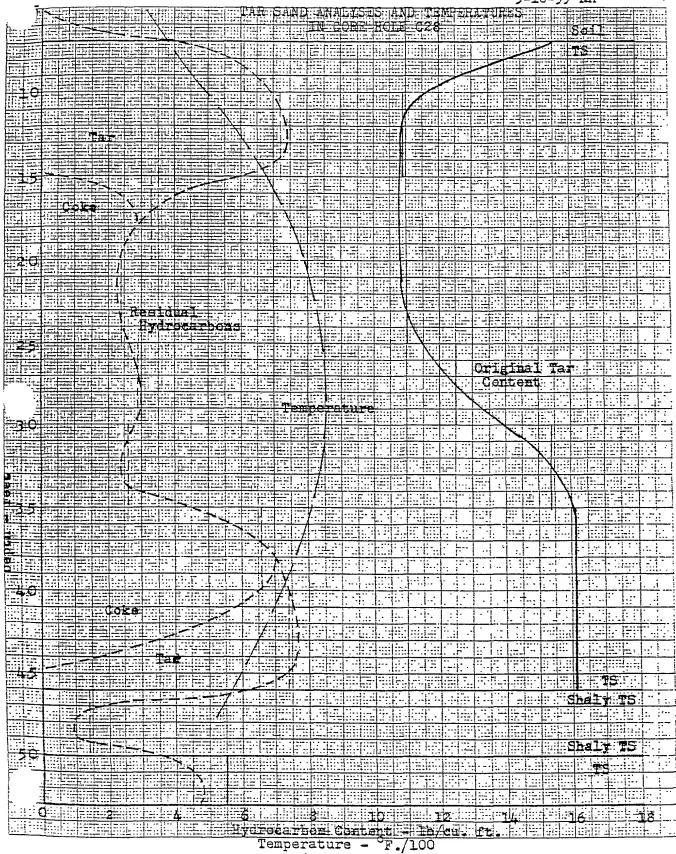
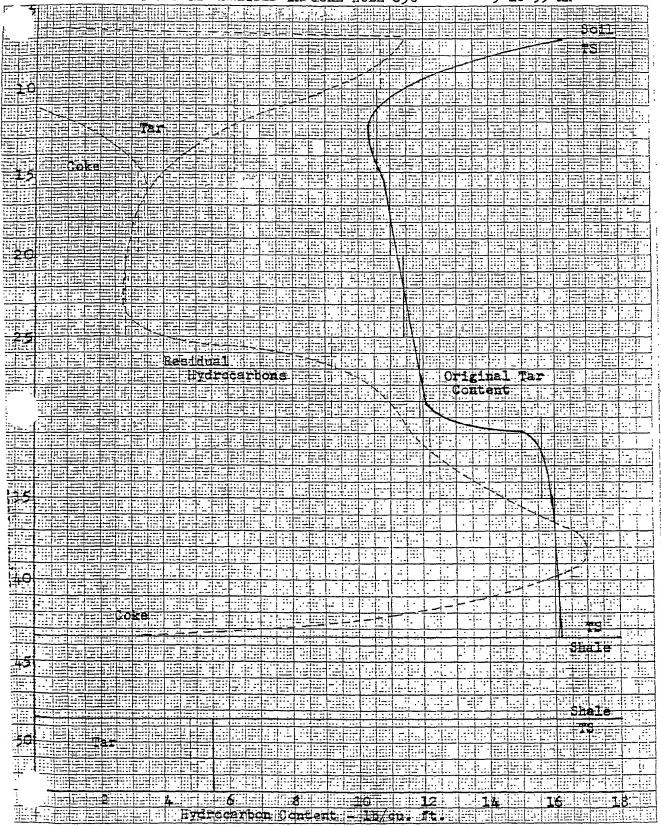


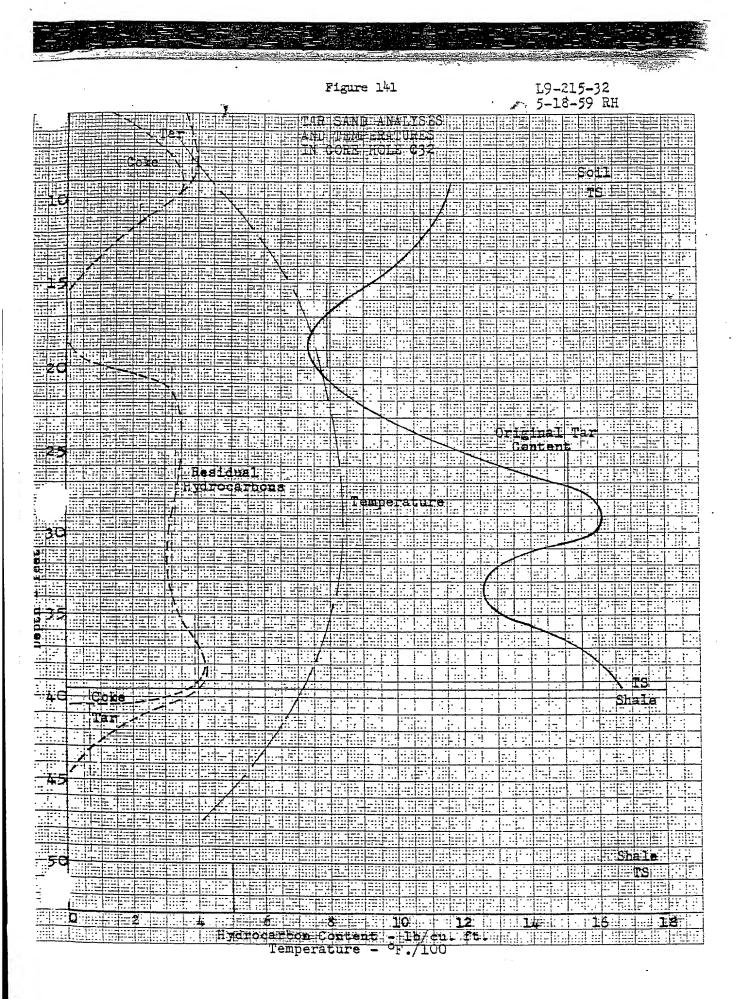
Figure 138 L9-215-29 5-18-59 RH. TAR SAND ANALYSES AND TEMPERATURES
IN CORP. HOLD C29 1 emperature 1: 1 Figure 139
TAR SAND ANALYSES IN: CORE HOLE C30

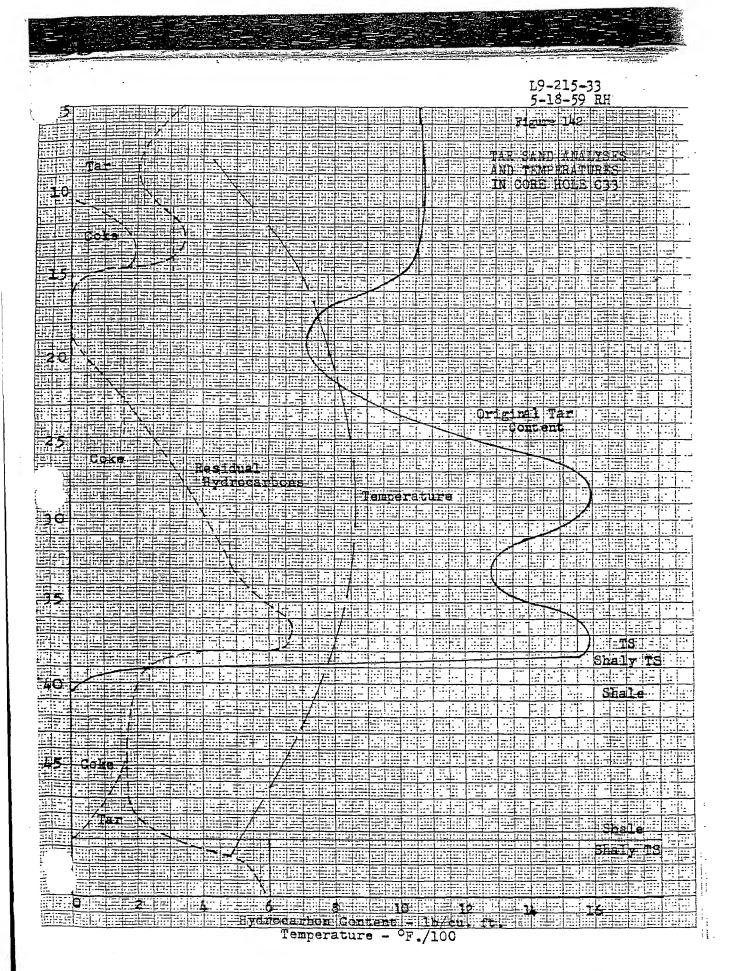
L9-215-30 5-18-59 RH



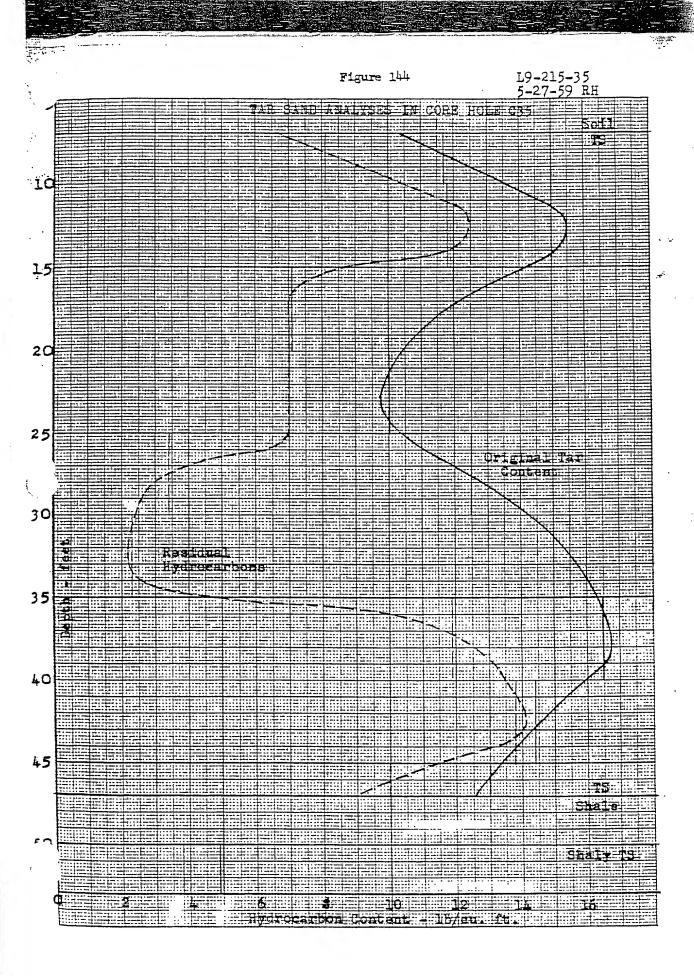
L9-215-31 5-18-59 RH

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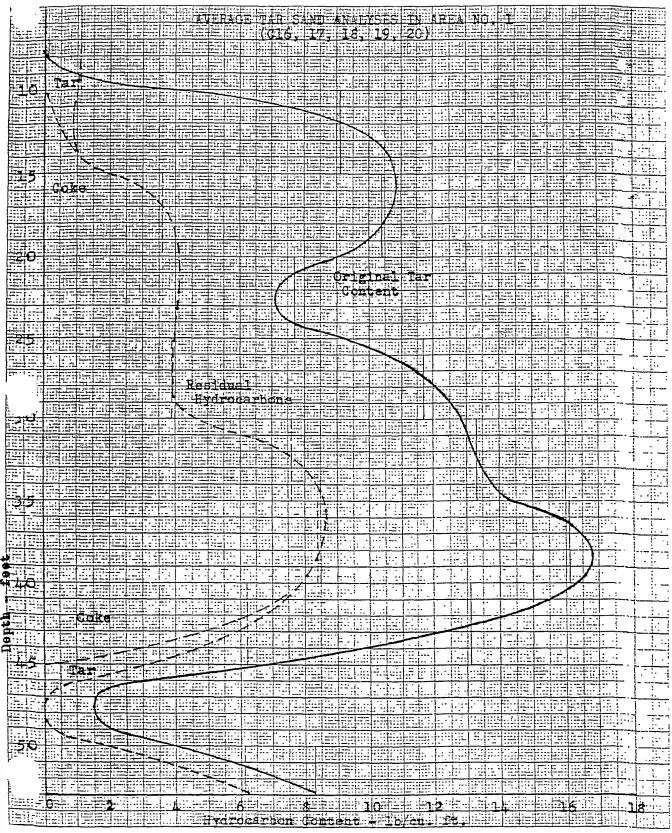


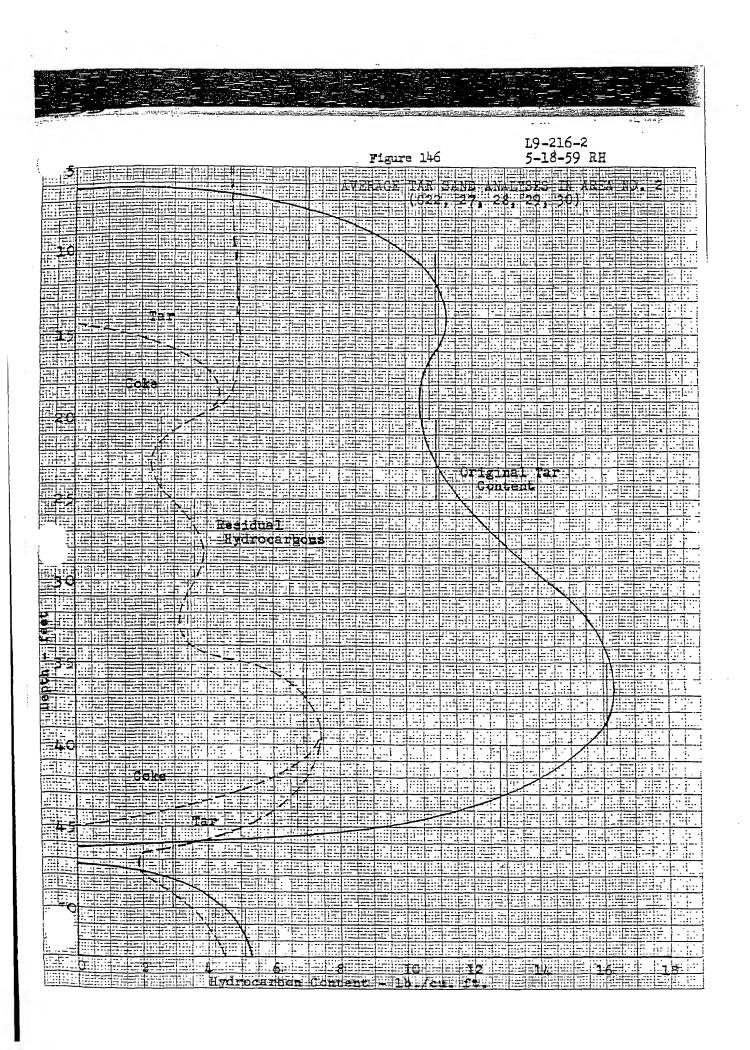


L9-215-34 5-19-59 RH Figure 143 SAND ANALYSES Centent . ResidueL Tydroca bons -i= 35 - 7.-10 2 14.4-15. : r: <u>.:i=:</u> Shale **1.:*| .:;;: 7. 1 可进 性肿質 [:::i: Sand Shaly TS The state of the s



L9-216-1 Figure 145 5-18-59 RH





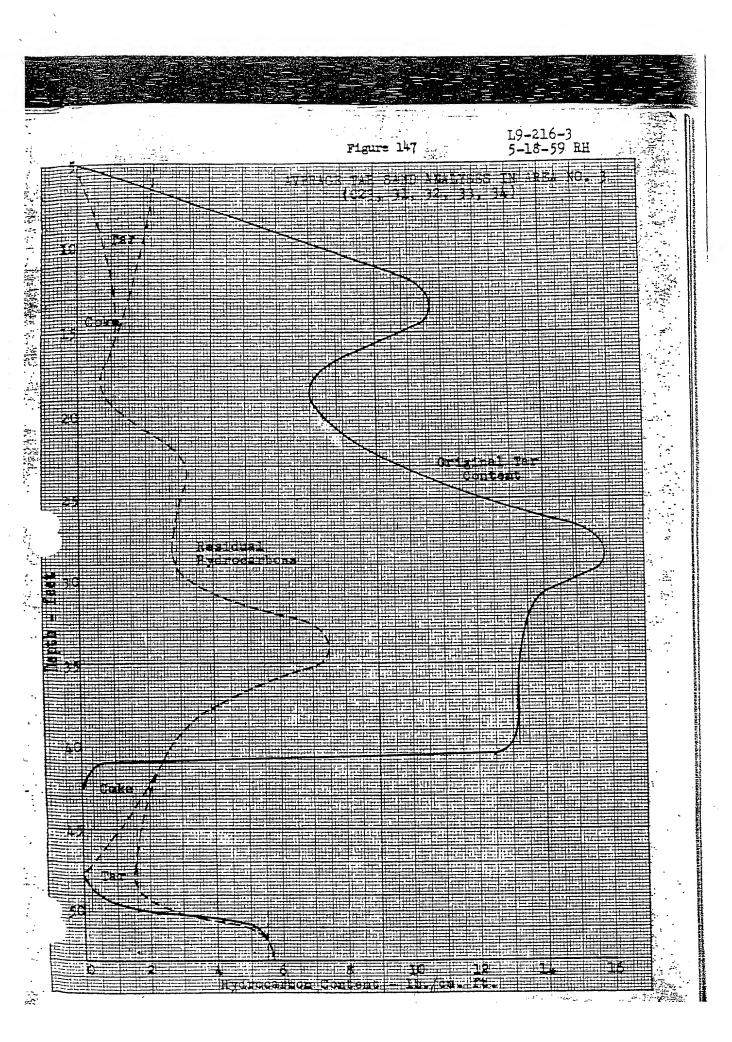
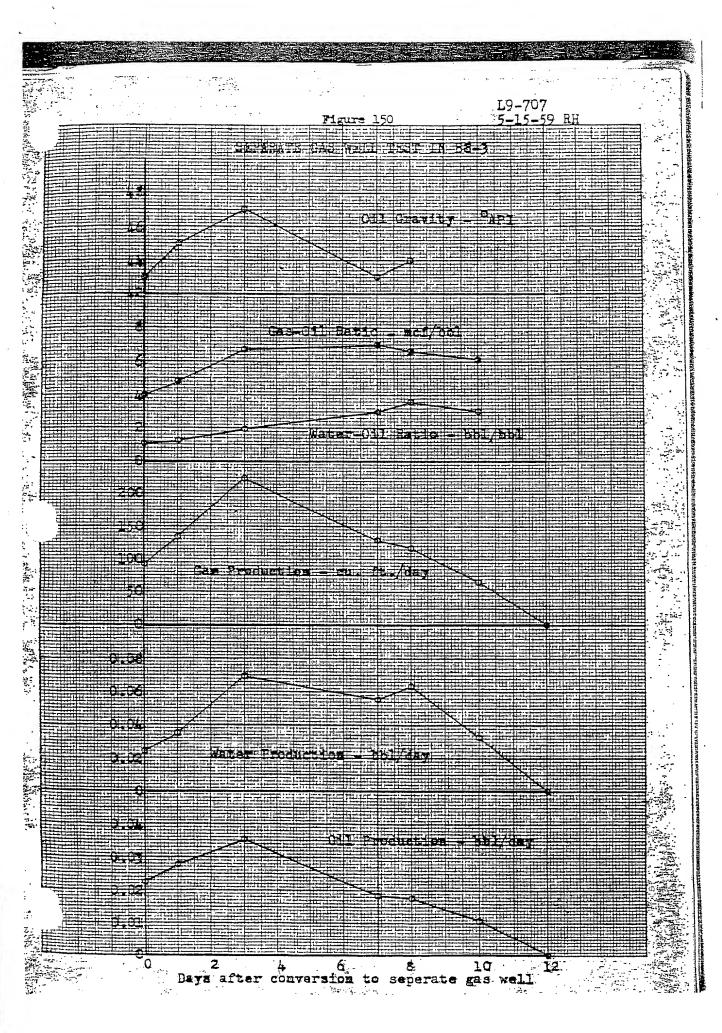
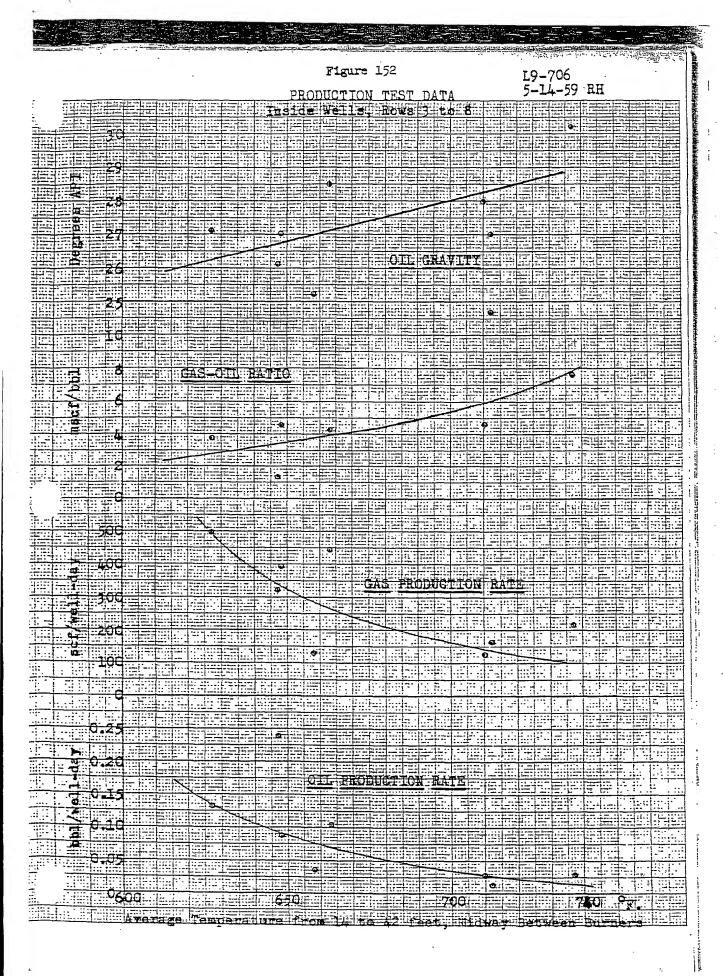
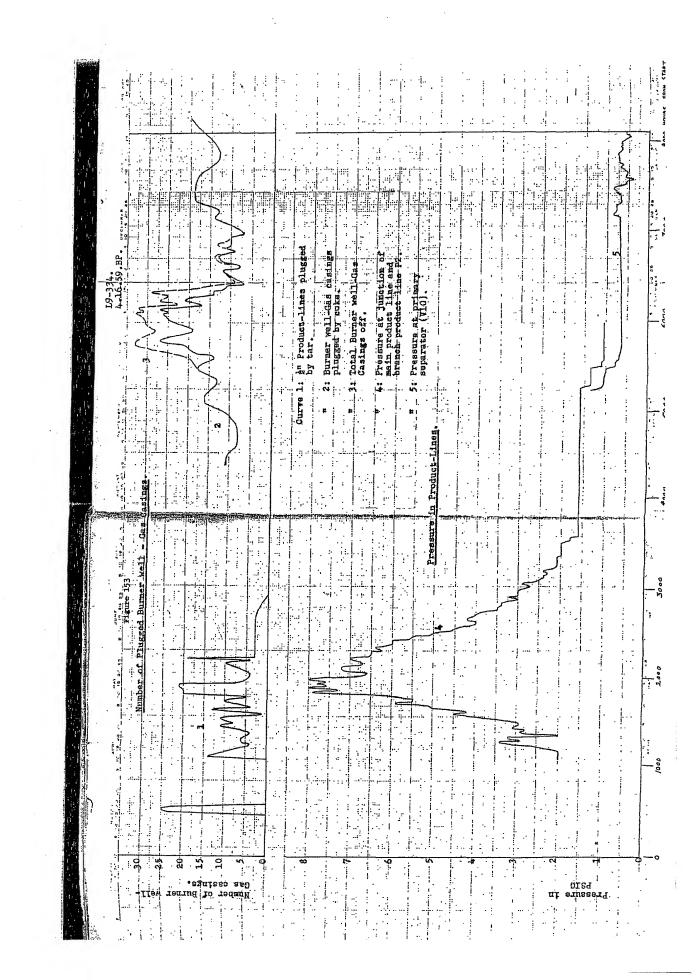


	Figure 148	5-14-59 RH
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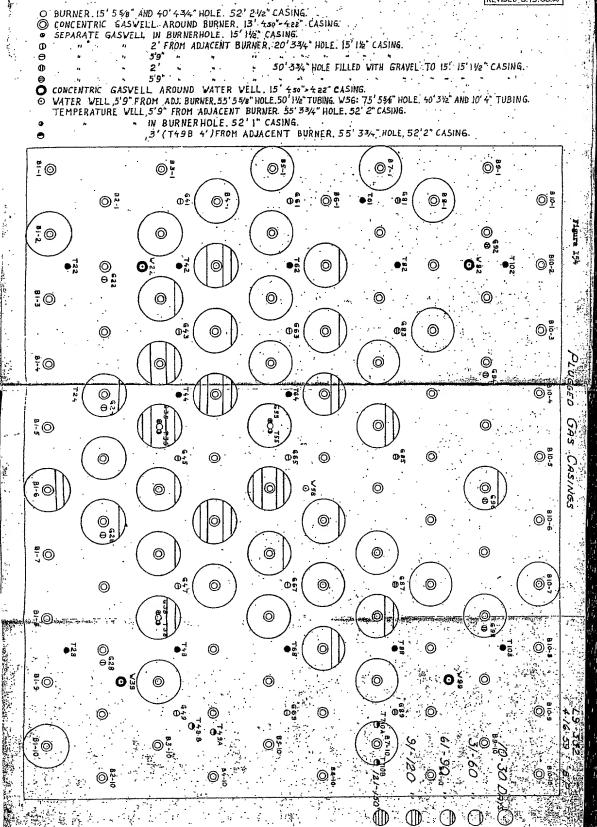






HOLE PATTERN OF TEST L9

L 9-101... JAN.21.1958.82 REVISED 3.15.58.09



HOLE PATTERN OF TEST L9.

JAN.21.1958.BP REVISED 3.15.58.W

O BURNER. 15' 5% and 40' 434' HOLE. 52' 2 V2" CASING.

O CONCENTRIC GASWELL AROUND BURNER. 13' 430" 422" CASING.

SEPARATE GASWELL IN BURNERHOLE. 15' 1½" CASING.

2' FROM ADJACENT BURNER. 20' 334' HOLE. 15' 1½" CASING.

2' 50' 334' HOLE FILLED WITH GRAVEL TO 15'. 15' 1½" CASING.

5'9"

CONCENTRIC GASWELL AROUND WATER VELL. 15' 450" 422" CASING.

WATER WELL, 5'9" FROM ADJ. BURNER. 55' 55%" HOLE. 50' 1½" TUBING. W56: 75' 55%" HOLE. 40' 3½" AND 10' 4" TUBING.

TEMPERATURE VELL, 5'9" FROM ADJACENT BURNER. 55' 334" HOLE. 52' 2" CASING.

N BURNER HOLE, 52' 1" CASING.

3' (749B 4') FROM ADJACENT BURNER. 55' 334" HOLE. 52' 2" CASING.

